

Read by SEAMAN

Read by

SEAMAN

# DRUG & CHEMICAL MARKETS

Established 1914

A Weekly Business Paper and Prices Current on  
Chemicals, Drugs, Colors, and Aromatics

VOLUME XIV

NEW YORK, FEBRUARY 13, 1924

NUMBER 7

## MONSANTO

### *Fine and Medicinal Chemicals*

The art of Chemical manufacture is nowhere so well exemplified as in Monsanto Fine and Medicinal chemicals. . . Each product, the criterion in its field, is but a natural result of more than twenty years of concentration in laboratory and plant. . . For example—compare the free salicylic content of Monsanto Aspirin (Acetyl Salicylic Acid) or the color of Monsanto Sodium Salicylate with that of any other manufacturer. Those firms who demand the best specify Monsanto

SALICYLIC ACID SODIUM SALICYLATE ACETYL SALICYLIC ACID SALOL

(ASPIRIN)

in addition to which we are also offering

METHYL SALICYLATE STRONTIUM SALICYLATE AMMONIUM SALICYLATE

CALCIUM SALICYLATE MAGNESIUM SALICYLATE

and many other fine and medicinal chemicals, technical chemicals and intermediates,  
which are available for prompt shipment or on contract.

Samples and prices will be sent upon request

**Monsanto Chemical Works**

NEW YORK

SAINT LOUIS, USA.

CHICAGO



**In This Issue** { Gain in 1923 Chemical Imports  
Dye Imports for January

# Sodium Phosphate



*The  
Mark  
of  
Dependability*

PHOSPHORUS OXYCHLORIDE  
CARBON TETRACHLORIDE  
SODIUMPHOSPHATE  
ACETIC ANHYDRIDE  
SULPHUR CHLORIDE  
PHOSPHORIC ACID  
CAUSTIC SODA

Experience has taught discriminating buyers to depend upon the high solubility of our technical Sodium Phosphate. Its exceptional whiteness and its uniform dry, granular condition testify to a superior purity only equalled in some U. S. P. grades. The Warner brand makes results certain, no matter how high your special requirements.

## THE WARNER CHEMICAL CO.

52 Vanderbilt Avenue New York, N. Y.

Plants: Carteret, N. J.

Exclusive Sales Agents for Westvaco Chlorine Products, Inc.,  
So. Charleston, W. Va.

**DOW**

# Dow Acetyl Salicylic Acid

**Granulation, 10% Starch**

**For Direct Feeding to Tablet Machines**

## DOW SALICYLATES

**Acetyl Salicylic Acid, N. N. R.**

**Acetyl Salicylic Acid**

**Granulation, 10% Starch**

**Salicylic Acid, U. S. P.**

**Sodium Salicylate, U. S. P.**

**Salol, U. S. P.**

**Methyl Salicylate, U. S. P.**

**Strontium Salicylate, U. S. P.**

**Ammonium Salicylate, U. S. P.**

**Magnesium Salicylate**

This Dow Product needs no further preparation. It is already used and endorsed by several large pharmaceutical manufacturers. We offer this product to the trade in general and recommend it for the many advantages it has over plain Acetyl Salicylic Acid, some of which are: saving in time and overhead, better finished tablets, and permanency, that is, no deterioration on account of making a moist granulation.

## TRY THE NEW PRODUCT

**DOW ACETYL SALICYLIC ACID**

**Granulation, 10% Starch**

A representative sample will be mailed to you upon application and your orders for spot shipment or on contract are solicited for the new product as well as other Dow Salicylates.

This product illustrates the increasing good service rendered by DOW.

# THE DOW CHEMICAL COMPANY

**MIDLAND, MICHIGAN, U. S. A.**

**Branch Sales Offices**

**90 West St., New York City**

**Second and Madison Sts., St. Louis**

Do you realize how complete  
is the line of  
"National" dye stains and re-agents?



Three services "National" offers  
the laboratory worker:

- the advantage of being able to obtain all the dyes, stains, and re-agents he needs from one reliable source of supply.
- the satisfaction of knowing that he is using the purest and most uniformly dependable line of dyes, stains and re-agents on the market.
- the opportunity of getting them quickly and conveniently. "National" Distributors are located in all sections of the country and all carry a full line ready for instant deliveries.

#### Pharmaceutical Division

**National Aniline and Chemical Co., Inc.**  
40 Rector Street New York, N.Y.

### "NATIONAL" BIOLOGICAL DYES, STAINS and REAGENTS

- |  |   |
|--|---|
| Justinian Cairo Co.<br>San Francisco, Cal.             | Roemer Drug Co.<br>Milwaukee, Wis.                        |
| Central Scientific Co.<br>Chicago, Ill.                | E. H. Sargent & Co.<br>Chicago, Ill.                      |
| Eberbach & Son Co.<br>Ann Arbor, Mich.                 | Scientific & Cinema<br>Supply Co.<br>Washington, D. C.    |
| The Empire Laboratory<br>Supply Co.<br>New York, N. Y. | Seiler Surgical Co.<br>Omaha, Neb.                        |
| The Harvey & Lewis Co.<br>New Haven, Conn.             | Shaw Supply Co.<br>Portland, Ore.                         |
| Henry Reid Chemical Co.<br>St. Louis, Mo.              | Smith & Thurstone<br>Buffalo, N. Y.                       |
| The Hilton Davis Co.<br>Cincinnati, Ohio               | E. F. Mahady Co.<br>Boston, Mass.                         |
| The Kauffman Lettmer<br>Co.<br>Columbus, Ohio          | V. Mueller & Co.<br>Chicago, Ill.                         |
| Kramer Surgical Stores,<br>Inc.<br>New York, N. Y.     | Noyes Bros. & Cutler<br>Minneapolis, Minn.                |
| E. Letta, Inc.<br>New York, N. Y.                      | St. Paul, Minn.   |
| The Levitt Ferguson Co.<br>Baltimore, Md.              | Edward Pennek<br>Philadelphia, Pa.                        |
| I. L. Lyons & Co., Inc.<br>New Orleans, La.            | Reinhold Schumann, Inc.<br>Newark, N. J.                  |
|  | Marshall Richa, Inc.<br>Baltimore, Md.                    |
|  | R. W. Snell, Inc.<br>Memphis, Tenn.                       |
|  | Theo. Tafel<br>Louisville, Ky.                            |
|  | The White Surgical<br>Supply Co.<br>Knoxville, Tenn.      |
|  | The Will Corp.<br>Rochester, N. Y.                        |
|  | The Winchester Surgical<br>Supply Co.<br>Charlotte, N. C. |

## DRUG & CHEMICAL MARKETS

Published Every Wednesday by

**DRUG & CHEMICAL MARKETS, INC.**

Williams Haynes, President  
Ira P. MacNair, Secretary F. F. Burgin, Treasurer

Publication Office

3 PARK PLACE, NEW YORK, U.S.A.

Telephone 0440 Barclay

Cable Chemmarket

Entered as second-class matter, Dec. 7, 1914, at the post office at New York, N. Y., under the Act of March 3, 1879.

#### SUBSCRIPTION RATES

United States, Cuba and Mexico, \$4.00 a year; Foreign \$5.00 a year, payable in advance. Current Copies, 10 cents. Back Copies, 25 cents. A Binder for this Journal @ \$1.00 Postpaid.

VOLUME XIV

NUMBER 7

## The Week in Brief

### News

Business outlook declared favorable by bankers. Index numbers of ten commodity groups compared with chemicals and drugs.

January imports of dyes were larger than December figures. Review of 1923 imports shows rapid growth in the domestic industry.

Imports of chemicals during 1923 increased 20 per cent over 1922, and exceeded exports by \$64,000,000.

Seized German patents yielded the United States Government \$1,000,153 in Royalties.

Caustic acid bills in two states, upset insecticide manufacturers, and may affect proprietary preparations containing certain products.

### Markets

Essential oils are steadily recovering the loss sustained last week. Oil lemon and orange are firm on spot.

Fine and medicinal chemicals are in seasonable demand, although the comparatively mild weather has resulted in light demand for salicylates.

Crude drug prices appear to be subjected to sharp cutting. The trade thinks that low-priced houses cannot exist much longer.

Demand for industrial chemicals confined mainly to small quantities for immediate delivery. White arsenic weaker as demand for calcium arsenate from cotton growers fails to materialize.

Makers of phenol sold up or not offering and supplies in the open market are becoming more difficult to locate. Benzene and toluene continue strong. Cresylic acid reduced by importers.

Crushers have advanced prices of linseed oil for forward delivery. Cottonseed oil continues weak with further declines in the market. Olive oil in small supply abroad and further advances in prices expected.



# MATHIESON Chemicals

## Chlorine Cylinders *Must Be Kept Clean*

**L** IQUID Chlorine is practically 100 per cent pure when first manufactured; it is then the function of the container to deliver its contents to you with the original purity unchanged.

**E**ach Mathieson cylinder is carefully cleaned, dried and inspected at the works before it is refilled with Liquid Chlorine. This plan keeps our containers in perfect condition at all times and preserves the purity of the "Eagle Thistle" product.

*Specify Mathieson Liquid Chlorine and be sure of the best in equipment and service.*

*The* **MATHIESON ALKALI WORKS Inc.**  
25 WEST 43<sup>rd</sup> STREET NEW YORK CITY

PHILADELPHIA  
PROVIDENCE

CHICAGO  
CHARLOTTE



**Deal Direct with the Manufacturer**

*Bicarbonate of Soda  
Liquid Chlorine-Caustic Soda*

*Sesquicarbonate of Soda  
Bleaching Powder-Soda Ash*



# CHEMICAL INDUSTRIES

**E**VERY manufacturer of textile, paper, rubber and leather in the country who does not already subscribe to **DRUG & CHEMICAL MARKETS** gets a copy of this paper one week in four. He will get one copy in four throughout 1924.

Here's an advertising opportunity you cannot afford to miss—over 5,000 extra circulation to the biggest buyers of chemicals, dyes, pigments, sizes, fillers, etc. at the cost of our regular paid circulation only.

To make your 1924 advertising more profitable use the paper that carries the most chemical advertising because it is regularly read by the greatest number of real chemical consumers.

Ask us how little it costs.

**DRUG & CHEMICAL MARKETS**

3 Park Place, New York

# CONSUMING INDUSTRIES



**Don't Worry Over Finishes!**

*The En-Bees have a special laboratory to solve your problems—*



# BRUNZOL

Size assistants, Softeners, Waxes, Gums, Waterproofing Compound, etc., meet every condition ordinarily met with in finishing fabrics.

Yet a special problem sometimes arises. In that case consult our special laboratory service. There is no charge—but the highest skill in textile chemistry will create a formula that will give your fabrics the qualities desired.

Write us about your requirements—it is a pleasure to co-operate with you in this confidential laboratory service.



## BRUNZOL SOFTENER

This compound in paste form is especially adapted for pure finishing of the finest cotton and woolen fabrics.

The fact that it is a manufactured product and not a natural one assures

uniformity at all times. It produces a better softening effect than is obtained from the use of vegetable and animal oils and at much less cost; the fact that it lubricates while it softens textile fabrics makes it of great value.

*Send for samples of this  
and other Brunzol Products*

**THE NEW BRUNSWICK CHEMICAL COMPANY**  
REPRESENTATIVES AT BOSTON - PROVIDENCE - CHATTANOOGA - ATLANTA NEWARK, N.J.

---

---

METHANOL

WM. S. GRAY & CO.

342 Madison Avenue

New York

ACETATE OF LIME

---

---



# DRUG & CHEMICAL MARKETS

VOLUME XIV

NEW YORK, FEBRUARY 13, 1924

NUMBER 7

## WHAT CHEMICAL PRICES INDICATE

Prices of drugs and chemicals during December last furnished the commercial agencies and Government departments in Washington with an index number which they calculated to be 130 and which is the same index number obtained by averaging prices for December, 1922. Out of ten commodity groups, chemical and drugs and farm products were the only group that remained unchanged. The 130 index figure for chemicals and drugs compares with 124 in January, 1922, when prices were lowest and 213 in May, 1920, when wholesale prices moved up to the peak for the year.

In other commodity groups the index numbers for December show increases in food prices, cloths and clothing, metal and metal products, and decreases in fuel and lighting, building material, house furnishing goods, miscellaneous products and in average prices of all commodities.

Bradstreet's index number for chemicals and drugs compiled for Feb. 1 on the basis of actual prices at the end of January is the same as for December, indicating no improvement so far this year. Many leading industries, however, record a decrease, including textiles, building materials, fruits, live stock and provisions. An increase is reported in hides and leather, metals, breadstuffs, oils and coal. A fair idea of price conditions is obtained from the statement of a commercial agency that out of 106 individual products 31 advanced in price, 28 declined and 47 remained unchanged. It is apparent that business has staying-power, which means well-sustained buying, even if not in great volume.

## SYNTHETIC MENTHOL

Synthetic menthol, or rather an optically inactive isomer of the ordinary natural U.S.P. menthol, is now being offered in a limited way in New York for arrival from England in about a week. Although this product has been offered in England by the manufacturer for some months past, the announcement of the product in this country a week or two ago, apparently attracted the attention of many menthol consumers. The pros and cons of synthetic and natural menthols have become very active topics of conversation in the New York trade. Discussion has been rife with much smelling, tasting, and comparing of samples. Samples have been sent to various parts of the country and the verdict is still in the hands of the jury,—the consumers.

A canvass of the trade in New York has revealed several new menthols apparently about to be offered

on the American market. In addition to the isomenthol of English origin, said to be built up from an isolate of eucalyptus oil, three others have come to light. Two are being or will be made in this country from American peppermint oil. The third is of German origin with a rose type odor which beclouds its source. While the English material is a mixture of white crystals and colorless liquid at ordinary room temperature, the other three retain their form of small white crystals. The English product is priced at nine dollars to arrive, about three dollars or so under the natural. Although the odor and taste approximate natural menthol, use is restricted because the new product is not U.S.P. It is also said to be four times as toxic as the U.S.P. At least one of the American menthols to be offered, however, will be strictly U.S.P. The German material is said to be held at \$10.50 for shipment while the American has not reached the price stage as yet.

In the menthol problem of to-day, the whys and wherefores of the various new products are merely sidelights. If outside competition eventually forces the Japanese to quit gambling with the menthol crop, and to stabilize the market at a reasonable price, the consumers of the world may give thanks. They have danced to the music of Japanese speculators for many a weary year. But, then again, these new things are just beginning. Another ten years may tell a different story. Japanese menthol producers may know by 1934 that they have been in active competition,—competition which has sounded the death knell of many a natural product in the past—with chemical synthesis.

## NEEDED—SOME BLUNT ADVICE

Citing an instance where a jobber in insecticides purchased a lot of calcium arsenate from a manufacturer at 13c per pound last year and resold it at 20c to another dealer, the farmer eventually paying 35c per pound for four hundred pounds, J. A. Moore, Jr., president, Gulf Chemical & Refining Co., recently stated, according to the Manufacturers Record:

"It seems to be quite generally understood by the well informed that neither the calcium arsenate manufacturer, nor the arsenic producer could be held responsible for excessive prices paid by the consumer of calcium arsenate. . . . The producers have been given some very unfavorable and damaging publicity which, under the circumstances, is extremely unfair. One has only to analyze the situation with facts, rather than hearsay, to conclude that excessive prices for calcium

arsenate do not come from the producer but result from profits taken by handlers of calcium arsenate between producer and consumer.

"It is unreasonable to suppose that calcium arsenate producers could break even by selling their material at 10c per pound when they are called upon to hold their material for a seasonal demand, with the possibility facing them of shipping only about half of their production and holding the other half for the following season. . . . One problem causing high prices could be promptly eliminated if farmers purchasing calcium arsenate would rely upon their bankers for information as to costs and sources of supply, then purchase the material early through their bankers or merchants, anticipating as near as possible approximate requirements."

If calcium arsenate were available in sufficient quantities at three or four cents per pound at a moment's notice for every cotton farmer when and where he needed it, little protest would likely be heard from the agriculturists. Whether the manufacturer makes money on his product is not their concern. They are looking for cheap arsenate, and they apparently do not care at whose expense they get it. From this same angle, just why should the arsenate producer care a great deal if some farmers were forced to pay fancy prices by local dealers because of shortsightedness on the part of the farmer in failing to take care of his needs in advance?

The attitude of farmers and their state organizations toward calcium arsenate has been wrong from the beginning. They have ignored the pleas of makers to arrange for supplies well in advance so that the producers might judge how much to manufacture, hoping to get through a season without the weevil attacking the crop. They have consistently refused to buy until the insect actually made its appearance. They want cheap arsenate when they need it, but are not willing to co-operate to this end. Every day that they waited in 1922 and 1923 cost them dearly, and the same will probably be repeated in 1924. Two big arsenate makers have quit the field and others may follow. The situation is not by any means improving from the farmer's viewpoint. A little blunt advice now from the U. S. Department of Agriculture might save the cotton farmer some money next summer.

The importance of the fight against the boll weevil is better understood when the financial interest in cotton is studied. Beginning with the planting of the cotton the banker is called upon to finance the farmers whose crops run into a billion and a half dollars annually. The cotton when picked must be moved and marketed, and the banker, the railroads, the warehousemen, and the cotton mills become interested. The raw material and the labor involved in manufacturing cotton represent an expenditure of nearly three billion dollars. Raw cotton sold abroad last year was valued at \$807,000,000, and represented one-fifth of the export trade of the United States. All these

interests are combining to fight the pest and in doing so they are performing a national service, for cotton is essential in every walk in life.

Manufacturers of insecticides are considerably agitated by bills introduced in the New Jersey and Virginia legislatures which require a poison label and directions for treatment in case of accidental poisoning, with the names of antidotes. The Proprietary Association is joining with the Insecticide and Disinfectant Manufacturers Association in opposing the bills, because attorneys believe the measures may affect all preparations containing cresols or cresylic acid. The trade should be fully posted on the requirements as described in this issue of *DRUG & CHEMICAL MARKETS*, in case the bills are enacted into laws. Considerable preparation will be necessary to comply with the directions regarding the many acids named.

### *Many Men: Many Minds*

Out of every \$8 of our national income, \$1 goes for taxes, federal, state and local. The boy whose living expenses are \$8 a week pays \$1 in taxes, in the form of prices made higher by taxation. The man who pays out \$24 a week is paying \$3 of taxes, the man expending \$48 pays \$6, and so on. And he pays this, even if he does not own one dollar's worth of taxable property. He pays it in cost of living and he cannot pass the cost along to anybody else.—Wall Street Journal.

Discussing the decision in the Chemical Foundation suit, the "Chemical Age" of London, says: "Unlike the usage of the corresponding legal authority in this country, the Department adds in advance that it has every confidence in ultimately winning the case, and regardless of the restrictions in this country imposed on cases still sub judice the matter will no doubt be freely discussed in the American press. The whole transaction indicates the remarkable way in which some things are done in the United States."

Commenting on the demand of the German Colonial Society for the return of Germany's lost colonies in exchange for the remedy for sleeping sickness discovered by a German chemist, the "New York Times" says: "In all probability the sleeping sickness remedy will not long remain a secret. By safe presumption it is one of the arsenical compounds already found efficacious in the treatment of other like maladies, and its duplication by foreign chemists is far from impossible. It would be the part of wisdom as well as of generosity if the German formula at once were divulged under only such restrictions as have been placed on insulin."

Irene du Pont, president of E. I. du Pont de Nemours & Co., discussing taxes in the company's report to stockholders, says: "A tax levied on those 'most able to bear' sounds attractive to those exempted, who are the majority. The writer is convinced that the present profit and surtaxes result in a much greater burden on those who are not taxed than would be their fair share of the tax to be raised. A tax on profits is equivalent to a bonus paid for inefficiency. Surtaxes are objectionable because they drive much capital from productive industry, through the route of Federal, State and municipal securities, into publicly operated projects which yield on the average only a small return to the community."

# Chemical Imports Increase 20 Per Cent.

Aggregate Value Estimated at \$210,609,185 Compared With Exports for 1923 Valued at \$146,147,420—Coal-Tar Chemicals Advanced in Value from \$11,000,000 in 1922 to \$17,000,000 in 1923—Fertilizer Imports Form 30 Per Cent of Chemicals and Advance 39 Per Cent in Quantity—Many Industrial Chemicals Show Reductions—Arsenic and Sulfuric Acid Imports Exceed 1922 Figures

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Feb. 13.—In analyzing the preliminary figures for the imports of chemicals and allied products into the United States for the year 1923, says the Chemical Division of the Department of Commerce, it is observed that the improved conditions which were found in the export trade are true of the import trade. The statement follows:

The total imports of chemicals and allied products in 1923 had an aggregate value of \$210,609,185, and total exports, \$146,147,420. If it were possible to procure accurate comparative figures for the year 1922 for the imports, it is thought that the same relative gain of one-fifth which was made in the exports in 1923 compared with 1922, was made in the imports. Like the outgoing trade, incoming shipments during the last half of 1923 were smaller than during the first half of the year. Another point of similarity between foreign purchases and foreign sales, was the fact that the groups included under the heading "Chemicals and Allied Products" which showed important changes in exports, also recorded changes in imports. These groups were Increases, coal-tar chemicals,—exports, 62 per cent, imports, 57 per cent; fertilizers and fertilizer materials, exports, 24 per cent, imports, 40 per cent; decreases, industrial chemicals, exports, 3 per cent, and imports 9 per cent.

For comparative purposes, in some instances in the following report, the figures for 1922 have been taken from Table Number 9, "Imports for Consumption" from "Foreign-Commerce and Navigation of the United States," whereas the majority of the figures for 1922 and all for 1923 are preliminary figures as furnished in the "Monthly Summary," are general imports and subject to revision.

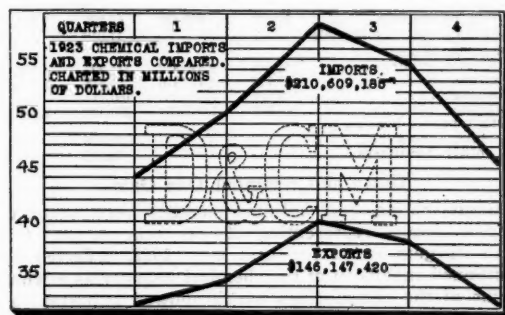
## Higher Value of Coal-Tar Chemicals

The total imports of coal-tar chemicals advanced from a value of \$11,012,769 in 1922 to \$17,273,682 in 1923. Of this amount, in 1923, two-thirds was made up of crude materials and 30 per cent of finished coal-tar products. Dead or creosote oil was the most important commodity received when 64,199,636 gallons worth \$10,071,393 arrived in 1923, an increase of 54 per cent in quantity and 137 per cent in value. Naphthalene to the value of \$578,563 (21,036,458 pounds) came in 1923. Receipts of alizarin and derivatives fell from \$701,934 (479,850 pounds) in 1922, to \$403,612 (290,130 pounds) in 1923. Indications are that there was no radical change made in amounts of colors, dyes and stains, color acids, and color bases, entering the United States in 1923 as compared with 1922. In 1923, receipts were valued at \$4,424,311 (3,252,383 pounds), of which amount, 44 per cent came from Germany, and 30 per cent from Switzerland.

## Reductions in Industrial Chemicals

The striking feature of the imports of industrial chemicals was the very high percentages of gains or losses that occurred in many of the commodities, as

for example, the increases in receipts of arsenic which gained over 1,000 per cent from 1922; of sulfuric acid, 543 per cent; glycerin, 326 per cent; sodium nitrite, 257 per cent; ammonium chloride, 181 per cent; ammonium perchlorate, 137 per cent; and decreases of, 97 per cent, in calcium acetate and chloride; citric acid, 47 per cent; arsenic sulfide, 43 per cent; bleaching powder, 63 per cent; citrate of lime, 91 per cent; and sodium ferrocyanide, 70 per cent.



Increases and decreases were made in other of the chemicals of this group, but only the more important have been mentioned.

## Imports of Industrial Chemicals into United States, 1922 and 1923

	1922		1923	
	Quantity Pounds	Value Dollars	Quantity Pounds	Value Dollars
<b>Acids</b>				
Arsenic .....	2,161,228	162,494	21,149,545	1,985,400
Citric .....	1,325,366	477,563	820,370	250,845
Formic .....	278,101	20,481	1,275,705	95,405
Oxalic .....	1,294,236	106,627	2,629,297	206,861
Sulfuric .....	2,915,199	29,234	23,508,494	198,088
Tartaric .....	2,802,063	651,474	2,653,919	641,697
All other .....			4,297,550	365,585
Alcohols including fusel oil				1,239,358
<b>Ammonium compounds</b>				
Chloride .....	2,108,135	115,397	6,056,902	325,179
Nitrate .....	23,969,568	1,195,549	19,915,953	1,297,924
Perchlorate .....	267,459	15,441	1,111,502	36,714
All other .....			1,874,439	104,977
Arsenic sulfide .....	7,630,519	472,044	2,194,540	268,311
Barium compounds .....			7,964,717	298,737
Cobalt oxide .....	217,530	444,458	268,374	511,908
Calcium acetate .....	54,618,247	1,820,579	6,461,792	48,539
Bleaching powder .....	8,534,709	135,673	1,395,545	50,532
Citrate of lime .....	15,981,682	2,222,795	1,672,604	200,143
Glycerin .....	3,657,068	1,354,369	15,142,802	1,507,664
Iodine, crude .....	352,557	1,024,609	274,238	887,460
<b>Potassium</b>				
Cyanide .....	3,088,108	253,072	2,464,463	199,261
Carbonate .....	10,008,325	386,140	10,949,977	579,095
Ferrocyanide .....	290,089	70,847	391,577	88,088
Hydrate .....	11,848,675	715,910		
Hydroxide .....			10,867,354	686,710
Nitrate .....	*2,438	141,521	*2,747	137,228
Bitartrate, crude, argols	22,965,618	1,709,184	19,803,621	1,612,011
Other .....	12,179,888	757,404	23,171,018	1,684,311
<b>Sodium</b>				
Cyanide .....	15,705,924	1,306,071	29,645,744	2,435,209
Ferrocyanide .....	4,139,012	639,647	1,147,171	186,601
Nitrite .....	1,461,528	58,302	4,685,501	209,026
All other .....		1,204,017		1,407,520
All other industrial chemicals .....				4,736,261

\*Unit of quantity is tons.

## Heavy Fertilizer Imports

Fertilizers and fertilizer materials which accounted for 30 per cent of total chemical imports advanced 39 per cent in quantity and 41 per cent in value from 1,340,440 tons, valued at \$45,122,574 in 1922 to 1,857,866 tons, \$63,881,361 in 1923. Advances were made in all the individual items embraced under this head except in crude potassium chloride, and kainite. Purchase of



sodium nitrate which comprised nearly two-thirds of the total fertilizers rose 60 per cent in value from \$26,152,723 (542,464 tons) to \$42,955,770 (891,679 tons). The following table shows the details of the imports of fertilizers and fertilizer materials in the years 1922 and 1923:

Imports of Fertilizers and Fertilizer Materials into United States, 1922 and 1923

	1922		1923	
	Quantity Tons	Value Dollars	Quantity Tons	Value Dollars
<b>Nitrogenous</b>				
Calcium cyanamide ....	641,887	2,236,474	68,532	3,672,898
Calcium nitrate .....			9,211	366,346
Sodium nitrate .....	542,464	26,152,723	891,679	41,955,770
Sulfate of ammonia.....	4,890	260,172	3,530	204,624
All other .....			117,501	3,869,232
<b>Phosphates</b>				
Bone phosphates .....	32,274	860,683	56,326	1,732,749
Other phosphate materials			11,010	149,896
<b>Potash fertilizers</b>				
Chloride, crude .....	161,546	5,549,852	135,497	4,116,180
Sulfate, crude .....	57,719	2,429,416	63,578	2,576,469
Kainite .....	149,857	1,023,330	160,211	924,131
Manure salts .....	195,005	1,948,608	273,344	2,957,503
Other potash bearing substances .....			32,826	412,111
All other fertilizers.....			34,612	943,859

#### Gums and Essential Oils Gain

Gums, resins, and balsams, another very necessary import group, representing 20 per cent of our total with its gain of 40 per cent over 1922, reflected the continued expansion of the chemical industry as a whole. Some of the commodities which showed important advances were: shellac, 54 per cent; crude camphor, 42 per cent; refined and synthetic camphor, 53 per cent; gum arabic, 55 per cent.

Although the total amounts of drugs, herbs, leaves and roots which were brought into the United States in 1923 surpassed by 10 per cent the value of 1922, some of the shipments of the individual items failed to reach the 1922 figure, such as, licorice extract, and nux vomica.

Cinchona bark receipts lost 15 per cent in value but rose 13 per cent in quantity.

Larger amounts of some essential oils, and lesser quantities of others were received in 1923 than in 1922, making the totals therefore, for the two years about the same.

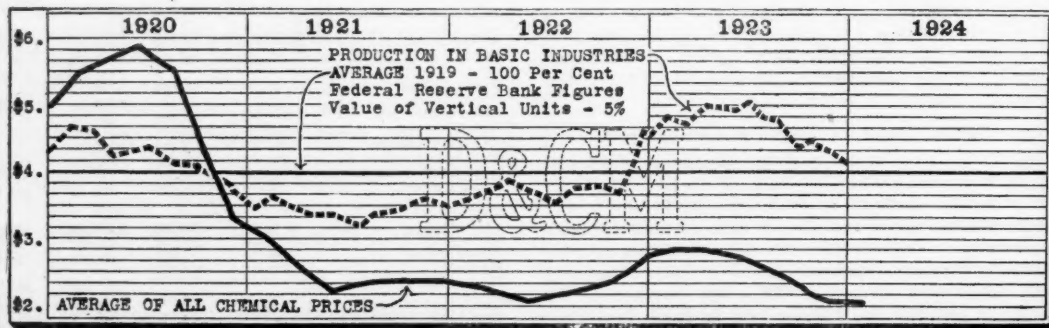
#### Perfumery, and Cosmetics Imports Fall

Perfumery and other toilet preparations which formerly played such an important part in import trade fell approximately one-third from a total valuation of \$8,973,609 in 1922, to \$5,612,789 in 1923. It is interesting to note that in 1923, the imports are over a million dollars below the exports. Appreciable reductions were made in the incoming shipments of perfumery including cologne, bay rum, and cosmetics, powders and creams, which diminished from \$5,905,189 to \$2,366,987, for the first; from \$243,826 to \$64,935, and from \$921,677 to \$711,050 for the last named; On the other hand, the domestic demand for perfume materials, for much of which we are dependent upon foreign countries, swelled from \$1,902,917 in 1922 to \$2,469,817.

Secretary of Commerce Hoover has appealed to the House Commerce Committee for legislation to make the present foreign service of the Bureau of Foreign and Domestic Commerce a permanent feature. Secretary Hoover in explaining the need for such legislation, informed the committee that out of the 1,000,000 letters to the State Department, 55,000 related to business and commerce, while 980,000 letters came to the Department of Commerce with reference to foreign trade.

E. A. Johnson, formerly Akron branch manager of National Aniline & Chemical Co., has joined Monsanto Chemical Works' sales staff and will be located at the company's branch office in New York.

## Industrial Production and Chemical Prices



Production in 22 basic industries closed 1923 at the lowest point of the year. The same was true of chemical prices. Both downward movements were due primarily to the contraction in business from May to December, and steadily reduced output over this period, preceded in each industry by a slump in demand. Iron, steel, cotton and woolen cloths, petroleum, sugar, lumber, led in the contraction of operations. Chemical production is believed to have been reduced during the last quarter of the year, although nobody can authoritatively confirm this. In the chart

herewith, prices on the left are the average for all chemicals per hundred pounds. The broken line shows industrial production, based on the 1919 average, each vertical division representing five per cent above or below this level as indicated on the chart. The production figures are from the Federal Reserve Bank; the chemical prices from DRUG & CHEMICAL MARKETS. With the falling off in production of basic industries during 1923, consequent smaller demand for chemicals used in industrial operations naturally resulted in a downward trend in chemical prices.



# More Confidence Felt in Business Outlook

**Price Index For Chemicals and Drugs During January Was 130 Compared With 124 in January, 1922, When Prices Were Lowest and 213 in May, 1920 When Highest—Failures in January Large Owing to End of Year Liquidation—Labor Employment Improving**

U. S. Steel Corporation's unfilled tonnage on January 31, amounted to 4,798,429 tons, against 4,445,339 on December 31, an increase of 353,090 tons. On November 30, 1923, unfilled orders aggregated 4,368,384; on October 31, 4,672,825 and on January 31, 1923, 6,910,776 tons. Increase of 353,090 tons in U. S. Steel's unfilled orders in January gives some measure of the improvement in the trade since the first of the year. Bookings at the end of January, 4,798,429 tons, were the largest since September, 1923, when orders were 5,035,750 tons.

Loading of revenue freight for the week ended January 26 amounted to 891,326 cars, a decline of 3,950 from the previous week, according to the American Railway Association.

Bradstreet's index number for chemicals and drugs, compiled for Feb. 1 on the basis of actual prices at the end of January, shows no change. Six numbers show decrease during January, including live stock, provisions, textiles, fruits and building materials; 6 show increase, including breadstuffs, hides and leather, metals, oils and coal. Among individual articles, 31 rose, 28 declined and 47 stood unchanged.

In the Bradstreet table the February index marks a decline of 3.8 per cent from the same date in 1923, but an advance of 24 per cent over June 1, 1921, the low point of the deflation movement.

"The trend of business in the first month of the new year has strengthened the feeling of confidence which developed in the last two months of 1923," says the National City Bank, New York. In chemicals and drugs the index number of the Department of Labor, Washington, for December last was 130, the same as for December, 1922, compared with 124 in January, 1922, when prices were the lowest, and 213 in May, 1920, when prices were at the crest of the upward movement.

Industrial employment in Detroit reached a new high mark last week when an increase of 2,820 brought the total to 242,331. This is 12,360 more than the peak of employment last spring against 205,618 for the same week last year.

## OVER 2,000 FAILURES IN JANUARY

Business failures in January were the heaviest recorded for twenty-two months and liabilities were the largest for any month since October, 1907, according to Bradstreet's. January is ordinarily a month of failures, owing to year-end liquidation and the winding up of unsuccessful enterprises which had survived earlier stress.

Failures for January totaled 2,258, an increase of 21.5 per cent over December, 1923, and of 2.4 per cent over January, 1923, but a decrease of 17 per cent from January of 1922. Liabilities totaled \$109,126,553, being 35.8 per cent in excess of those for December, 1923, slightly more than double those of January a year ago, and 3.2 per cent in excess of those of January, 1922.

## New Incorporations

### Chemical Industry

American Salt and Chemical Co., Ludlow, Cal., \$2,000,000. Manufacture salt, gypsum and chemicals. Harry D. Standley, William M. Morse, Jr., Wendell S. Mills, T. W. Hindmarsh, Harry K. Sargent, Los Angeles.

Nap-o-Len Manufacturing Co., Salt Lake City, Utah, \$50,000. Manufacture chemicals. F. U. Gordy, president and Juliet C. Hardy, Secy.-Treas.

Aniline Color & Chemical Co., 162 W. Kinzie st., Chicago, \$35,000. Chemicals, dyes, etc. J. Phillip Bauer, A. G. Dicus and J. B. Jones.

Zillessen & Son, Inc., Passaic, N. J., \$50,000. Chemicals. E. A. and Ernest I. Zillessen, 353 Van Houten st., Passaic, N. J.

Cummings Chemical Co., Winston-Salem, N. C., \$125,000. Chemicals. J. H. Dyer and L. W. Cummings.

Cochrane Co., North Billerica, Mass., \$50,000. Chemicals. John Cochrane, Billerica, Bertrand Midgley, Lowell, Joseph E. Perry, Waverly, Massachusetts.

Miles Chemical Co., 608 Guarantee Trust Building, Atlantic City, N. J., \$100,000. Manufacture chemicals.

Aurarine Corp. of America, New York, \$125,000. Manufacture chemicals and dyes. A. Franken, J. Hesselein, J. A. Forsch. Attorney, A. Lessler, 31 Nassau street.

### Consuming Industries

Rhode Island Mills, New York, \$100,000. Textiles. D. Loewenthal, 410 West End ave.

Waterproofing Corporation of America, New York, a Delaware corporation, \$1,000,000. Roofing materials. U. S. Corporation Co.

International Cotton Refining Corp., New York, a Delaware Corporation, \$3,000,000. U. S. Corporation Co.

New & Co., Wilmington, Del., \$500,000. Manufacture catsups and sauces. Charles G. Guyer.

American Dental Products Co., Wilmington, Del., \$200,000. Hospital supplies. Corporation Service Co.

Keystone Ice Co., Wilmington, Del., \$100,000. Manufacture ice. Corporation Trust Co. of America.

Houston Graphite Co., Boston, Mass., \$100,000. Graphite.

B. Dietz Leather Co., Boston, Mass., \$200,000. Leather.

United Silk Co., Boston, Mass., \$250,000. Textiles.

North American Textile Corp., Wilmington, Del., \$2,000,000. Manufacture cotton and wool.

Reinforced Paper Products Corp., Wilmington, Del., Paper bottles and bags.

Satin-Klasp Mfg. Co., Salt Lake City, Utah, 135 Regent st. Manufacture lotion for the hands.

American Fireworks Co. of Massachusetts, Boston, Mass., \$100,000. Manufacture fireworks. Joseph and Ernest Gioioso, Milton, Albert B. Fopiano, Cambridge, Antonio Gioioso and Daniel F. Fitzgerald, Boston, Henry L. Rapp, Quincy.

International Forest Products Corp., Springfield, Mass., \$200,000. Forest products. George M. Faulkner, Brighton, William J. Dalton, Springfield, Miriam S. Chester, Wakefield.

Passaic Glass Co., Passaic, N. J., \$100,000. Glass products. Leonard Troast, Charles Elias, 812 Main st.

Kendall Mfg. Co., Providence, R. I., \$300,000. Manufacture soap and washing powders. Paul L. Butler, Gordon R. Fulton, O. V. Kean.

## CHEMICAL BUYER TO ADDRESS SALESMEN

Alvin Hunnsicker, president, United States Oil Cloth Co., will be the speaker at the February meeting of the Salesmen's Association of the American Chemical Industry to be held at the Builders' Exchange, New York, Tuesday, Feb. 19. The president of the oil cloth company, a big consumer of chemicals and oils, will speak on "The Invisible Chemical Salesman" and describe some of his buying experiences. George Bode, Roessler & Hasslacher Chemical Co., chairman of the committee, states that Mr. Hunnsicker has a large number of stories about chemical salesmen, some of which are not altogether favorable, which he will tell at the meeting. In case of necessity, Ralph Dorland, Dow Chemical Co., president of the Association, who will preside, will call upon two or three members to reply to Mr. Hunnsicker. The members slated for the replies include Frank McCartney, Monsanto Chemical Works; John Boyer, Mathieson Alkali Works; and A. H. Pierce, Grasselli Chemical Co.

# January Dye Imports Exceed December

Total 228,743 Pounds Compared With 202,704 Pounds in December—Boston Imports Were 8,700 Pounds and Philadelphia 1,000 Pounds—About 41 Per Cent of Total Imports Came from Germany, Against 68 Per Cent in December, and 32 Per Cent from Switzerland, Compared With 14 Per Cent in December—Medicinals of Coal-Tar Origin Totalled 201,271 Pounds

Imports of coal-tar dyes for January 1924 totalled 228,743 pounds with an invoice value of \$232,571. This represents an increase over the imports of December 1923, when they totalled 202,704 pounds valued at \$212,851, according to a report by the Chemical Division of the Bureau of Foreign and Domestic Commerce in collaboration with the Chemical Division of the United States Tariff Commission. In addition, the imports of dyes through the port of Boston totalled 8,900 pounds with an invoice value of \$4,507, and through the port of Philadelphia, 1,000 pounds valued at \$790.

The five leading dyes in quantity were Indanthrene blue RS, 15,090 pounds; Helindone pink R, 11,500 pounds; Indanthrene golden orange R, 10,791 pounds; Ciba bordeaux B, 9,792 pounds, and Chlorantine fast brown, 8,488 pounds. Of the total quantity imported during

the month of January, 41 per cent came from Germany, compared with 68 per cent for the previous month; 32 per cent, from Switzerland, compared with 14 per cent for the previous month; and 8 per cent from Belgium, 6 per cent from Italy (the same as for the month of December, 1923), 5 per cent from England, 3 per cent from Canada, 3 per cent from France and 2 per cent from all other countries.

Imports of synthetic aromatic chemicals during January 1924 totalled 3,448 pounds with an invoice value of \$8,854 compared with an import of 3,349 pounds valued at \$6,515 for the month of December, 1923. Imports of medicinals, photographic developers, intermediates, and other coal-tar chemicals totalled approximately 201,271 pounds with an invoice value of \$48,116 compared with 19,597 pounds valued at \$29,706 for the month of December, 1923. This increase in January 1924 is largely accounted for by the import of naphthalene, 135,178 pounds, and novadelox, 51,818 pounds. The poundages are given as approximate because certain of the medicinals were imported in ampoules, the exact weight of which is not known. During January 1924 there were no imports of color lakes. In December 1923 imports totalled 28,286 pounds with an invoice value of \$8,552.

## The key to abbreviations:

### 1. The six leading German Companies

- A....Actien-Gesellschaft fur Anilin-Fabrikation, Berlin. Founded 1873. Branches in France and Russia.  
B....Badische Anilin- und Soda-Fabrik, Ludwigshafen on the Rhine. Founded 1862. Branches in France and Russia.  
By....Farbenfabriken vorm. Friedr. Beyer & Co., Leverkusen on the Rhine. Founded 1862. Branches in France and Russia.  
C....Leopold Cassella & Co., Frankfurt on the Main. Founded 1870. Branches in France and Russia.  
K....Kalle & Co., A. G., Biebrich on the Rhine. Founded 1870. Branches in Russia.  
M....Farbwerke vorm. Meister Lucius & Bruning, Hoechst on the Main. Founded 1862. Branches in France and Russia.

### 2. The seven smaller German Companies

- BK....Leipziger Anilinfabrik Beyer & Kegel, Furstenberg near Leipzig. Founded 1882.  
GG....Chemikalienwerk Griesheim G.m.b.H., Griesheim on the Main. Founded 1881.  
CJ....Carl Jager G.m.b.H., Anilinfarbenfabrik, Dusseldorf. Founded 1823.  
GrE....Chemische Fabrik Griesheim-Electron, Offenbach on the Main. Founded 1842.  
L....Farbwerk Muhlheim vorm. A. Leonhardt & Co., Muhlheim on the Main. Founded 1879. Branch in France.  
tM....Chemische Fabriken vorm. Weiler ter Meer, Urdingen on the Rhine. Founded 1877.  
WD....Wulffing, Dahl & Co., A. G. Barmen. Founded 1842.

### 3. Dutch, Belgian and French Companies

- FA....Farbwerk Ammersfoort, Ammersfoort, Netherlands. Founded 1888.  
NF....Niederlandische Farbe- und Chemikalienfabrik, Delft. Netherlands (Delft). Founded 1897. Branch in Russia.  
LG....Lazard Godchaux, of Brussels. (These products are probably compounded largely from the dyes made by A. Wiescher & Co., of Haeren, Belgium.)  
P....Societe Anonyme des Matieres colorantes et produits chimiques St. Denis (formerly A. Poirrier), St. Denis, near Paris, France. Founded 1830.

### 4. Swiss Companies, all at Basel

- DH....Farbwerke vorm. L. Durand, Huguenin & Co. Founded 1871. Branches in Germany and France.  
G....Anilinfarben- und Extract-Fabriken vorm. Joh. Rud. Geigy. Founded 1764. Branches in France, Germany, and Russia.  
I....Gesellschaft fur chemische Industrie. Founded 1885. Branch in France.  
S....Chemische Fabrik vorm. Sandoz & Co. Founded 1887.

### 5. English Companies

- CiCo....The Clayton Aniline Co. (Ltd.), Clayton, near Manchester. Founded 1876. Clayton, near Manchester. Founded 1890.  
CV....Colne Vale Chemical Co., Milnsbridge, near Huddersfield.  
RHS....Read Holliday & Sons (Ltd.), Huddersfield. Founded 1830. (Purchases by British Dyes (Ltd.).)  
BD....British Dyes (Ltd.). Founded 1915.  
Lev....Levinstein (Ltd.) Crumpsall Vale, near Manchester. Founded 1864.  
Q....Imports of unknown source through dealers in colors.

## The list of dyes follows:

Schultz No.	Dye & Maker	Quantity Pounds
28	Hansa yellow G	120
	Hansa yellow G pdr.-M	
58	Alizarin yellow R	800
	Ultra orange R-S	
66	Amido naphthol red 6B	24
	Amido naphthol red NB-c-CN	
73	Helio fast red	20
	Lithol fast scarlet RN pdr.-B	
118	Geranine	110
	Geranine G-c-By	
140	Curcumeine	440
	Chromocitrone R-ne-DH	
154	Palatine chrome brown	3
	Palatine chrome brown WN-B	
158	Chrome brown RR	1,102
	Chrome brown RW-ne-G	
175	Ponceau for silk	220
	Acid ponceau E-ne-G	
177	Mordant yellow	803
	Mordant yellow G-B	
	Milling yellow O-ne-C	
	Milling yellow OSG-A	
202	Palatine chrome red	3
	Palatine chrome red B-B	
206	Diphenyl catechine	4,250
	Diphenyl catechine G Supra-ne-G	
222	Janus yellow G	400
	Yellow JG-M	

Schultz No.	Dye & Maker	Quantity Pounds
227	Brilliant croceine	100
	Cotton scarlet extra-B	
274	Diaminogene extra-C	1,002
	Diaminogene extra-C	
	Diazo indigo blue 3RL-By	
296	Cotton yellow	1,102
	Benzo fast yellow RL-c-By	
313	Congo rubine	2
	Congo rubine 80%-By	
319	Diamine scarlet	260
	Diamine brilliant bordeaux R-ne-C	
	Benzo scarlet BC-By	
348	Diphenyl brown	1,102
	Diphenyl brown GS-c-G	
358	Diphenyl red	668
	Chloramine red 8BS-By	
	Toluylene red-ne-Gr-E	
400	Acid anthracene red	10
	Acid anthracene red 3B-By	
449	Trisulphon brown	1,596
	Trisulphon brown B conc-ne-S	
456	Benzo fast blue	530
	Benzo fast blue 4GL-c-By	
476	Benzamine brown 3GO	2
	Benzochrome brown G-By	
498	Turquoise blue	4
498	Turquoise blue G-By	
498	Turquoise blue BB-By	
512	Magenta	10
	Magenta AB pdr-Q	
515	Methyl violet	200
	Methyl violet NFB-B	
	Methyl violet 5R extra-M	
516	Crystal violet	1,600
	Crystal violet extra pdr-c-B	
518	Ethyl purple	2,000
	Ethyl violet-ne-B	
528	Fast green	661
	Fast green extra bluish-By	
527	Acid violet 4BN	99
	Acid violet 6B extra-By	
530	Acid violet	100
	Acid violet 4BLO-M	
531	Eriocyanine	7,716
	Eriocyanine AC-G	
539	Soluble blue	300
	Soluble blue T-B	
543	Patent blue	1,500
	Patent blue V-c-C	
545	Cyanol	1,317
	Cyanol FF-ne-C	
	Blue extra-ne-C	
559	Victoria blue B	100
	Victoria blue B highly conc-B	
560	Night blue	440
	Night blue-B	
562	Fast acid blue	1,602
	Acid blue RBF-S	
	Brilliant wool blue FFR ex-By	

(Continued on Page 483)

## QUOTATIONS ON CHEMICAL STOCKS

Closing Prices for Week Ending Feb. 9

	Bid	Asked		Bid	Asked
*Air Reduction .....	77 3/4	78 1/4	Hercules Powder .....	104	108
*Allied Chem. & D. ....	70 1/4	70 3/4	Hercules Powd., pf. 103	104	
*Allied Ch. & D., pf. 114	114 1/4	114 3/4	Heyden Chem. ....	1 1/4	2
*Am. Ag. Ch. ....	13 3/4	13 1/2	Hooker Electro ....	55	65
*Am. Ag. Ch., pf. ....	39	39 1/2	Hooker Electro, pf. 60	70	
*Am. Chicle ....	17	17 1/2	*Household Products	33 1/4	33 3/4
*Am. Chicle, pf. ....	55	65	*Int. Agricult. ....	1 1/4	2
*Am. Cot. Oil cfs. ....	11 1/4	12	*Int. Agricult. New. 4 1/4	5	
*Am. Cot. Oil Cfs.,			*Int. Agricult., pf. ....	7	8
pf. ....	34 1/4	36 1/4	*Int. Nickel ....	13 1/4	14
Am. Cyan. ....	85	88	*Int. Nickel, pf. ....	79	82
Am. Cyan., pf. ....	71	73	*Int. Salt ....		39 1/2
*Am. Druggist S. ....	5 1/4	6	*Mathieson Alk. ....	37	38
Am. Glue ....	82	85	Merck & Co., pf. ....	58	61
Am. Glue, pf. ....	124	126 1/4	Merrimac ....	94	96
*Am. Linseed ....	20 1/2	21	Mulford Co. ....	35	40
*Am. Linseed, pf. ....	41 1/4	42	Mutual Co. ....	150	151
*Am. Zinc ....	9	9 1/4	*National Lead ....	142 1/4	146
*Am. Zinc, pf. ....	29	32	*National Lead, pf. 112 1/4	113	
Archer-Dan-Mid ....	25 1/4	26 1/4	N. J. Zinc ....	149	152
Archer-Dan-Mid, pf. 86 1/4	89 1/4	89 1/2	Niag. A., pf. ....	96	100
*Atlas Powder ....	81	83	Parke, Davis & Co. ...	79 1/4	79 1/2
*Atlas Powd., pf. ....	84	85 1/4	Penn Salt ....	86	86 1/4
By. Prod. Co. ....	67	72	People's Gas, Chi. ....	96	96 1/4
Carborundum ....	135	135 1/4	Procter & Gamble ....	124	128
Carborundum, pf. ....	115 1/4	116	Procter & Gam., pf. 102	106	
Casein Co. ....	70	80	Royal Bak. Po. ....	130	135
Celluloid Co. ....	80	85	Royal Bak. Po., pf. 99	100	
Celluloid Co., pf. ....	107	110	Sherwin-Williams ..	30	31
Ches. Mfg. ....	345	356	Sherwin-W., pf. ....	102	104
Ches. Mfg., pf. ....	112	115	Stand. Ch. ....	90	100
*Com'l Solv. A. ....	51	55	Swan & Finch. ....	54	59
*Do B. ....	42	48	*Tenn. C. & Chem. ....	8 1/4	9
*Corn Products ....	174 1/4	175 1/4	*Tex. Gulf. Sul. ....	63 1/4	64
*Corn Products, New			Union Carbide ....	58 1/4	59
w. l. ....	35 1/4	35 3/4	Union Sulphur ....		84 1/4
*Corn Products, pf. ....	116	118	*Un. Drug ....	84	84 1/4
*Davison Chem. ....	53 1/4	53 3/4	*Un. Drug, 1st pf. ....	47 1/4	48 1/4
Dow Chem. non par. 46	47	47	*Un. Dyewood ....	40	45
Dow Ch., pf. ....	96	96	*Un. Dyewood, pf. ....		91 1/4
*Du Pont de Nem. ....	134 1/4	135	Un. Gas Imp. ....	57 1/4	58 1/4
*Du P't de Nem. Db. 86	87	87	Un. Gas Imp., pf. ....	55	55 1/4
*Eastman Kodak ....	110	110 1/4	U. S. Gypsum ....	93 1/4	93 1/2
*Eastman Kodak, pf. ....	108	108	*U. S. Indus. Al. ....	80 1/4	80 1/2
*Freemont Tex. ....	104	104	*U. S. Indus. Al., pf. 103	105	
Freem. Tex. Sul., pf. 91	93	93	*Va.-Car. Ch. ....	7 1/4	7 1/2
Gold Dust ....	36	36 1/4	*Va.-Car. Ch., pf. ....	23	23 1/4
Grasselli ....	125	133	*V. Vivaudon ....	13 1/4	13 1/2
Grasselli, pf. ....	101	103			

\*Listed on New York Stock Exchange

New Jersey Zinc Co. reports for the year 1923, net income of \$6,364,403 after all expenses and charges for taxes and interest. This compares with net income of \$6,054,647 reported in 1922. The net income for 1923 was equal to \$12.99 a share earned on the \$48,981,600 capital stock outstanding. After payment of cash dividends and setting aside of \$360,000 for employees' profit-sharing fund, there was reported a surplus of \$1,121,169 last year.

International Nickel Co. reports for the nine months ended Dec. 31, gross earnings including other income of \$2,145,688, net operating income after taxes of \$1,719,786 and balance available for preferred dividends after depreciation and depletion of \$788,192. Three quarterly dividend payments on the preferred stock required \$401,067, leaving surplus after dividends of \$387,124.

Parke, Davis & Co. net profits for 1923 were approximately \$5,188,000, the best year in the company's history, with the exception of 1922, when the high mark of \$5,260,735 was reached. The directors of the company were reelected.

Nitro Powder Co. 6 per cent bonds of face value of \$68,000, due in 1933, were sold at auction on Jan. 31, at the salesrooms of Adrian H. Muller & Sons, for \$68 for the lot.

Casein Co. of America (New Jersey) has declared a quarterly dividend of 2 per cent on the preferred stock, payable Feb. 13 to holders of record Feb. 7.

Casein Co. of America (Delaware Corporation) has declared a quarterly dividend of 1 per cent, payable Feb. 15 to holders of record Feb. 7.

## SOLVAY OF BELGIUM OFFERS BONDS

Solvay & Cie., of Belgium, are offering \$10,000,000 in secured bonds through Lee, Higginson & Co., White, Weld & Co. and Brown Brothers & Co. The issue is to run for 10 years, and will be offered at close to par. The proceeds derived from the issue will be used to retire \$10,000,000 in secured 8 per cent gold maturing in 1927 but callable at 104.

The issue will be secured by common stock of Allied Chemical & Dye Corp., New York, with a market value of approximately \$25,000,000. This sum represents the Belgian company's interest in Allied Chemical & Dye Corp. The Belgian company's business was founded in 1863. The bonds are due April 1, 1934, and are offered at 99 1/2 to yield 6.05 per cent. The bonds will be the only funded debt of the company.

## REACTION IN INDUSTRIAL ALCOHOL

The action of Industrial Alcohol has been disappointing to some of the buyers around the high levels, says "Financial America," and stop orders have been uncovered which have caused the reaction of about 4 points from the top record. Houses which were prominent buyers when the stock was advancing, however, insist that the issue is merely encountering a resting spell and hold the opinion that big interests have been adding to their long line on the recent irregularity. They point out that earnings are unusually large and add that January probably established a record for revenues which will be duplicated or passed in the coming months as a result of the substantial orders which have been received by the company from big consumers, notably the du Pont interests and the Ford Motor Co.

American Cyanamid Co. common stock advanced to a new high mark of 91 1/4 last week, which was a rise of 7 points over the previous week. The company has continued its large earnings and it is predicted that an increase in dividends during the year may follow. For the first six months of the fiscal year which ends on June 30, profits more than duplicated the showing for the same period of the previous year, when \$25.38 was earned on common stock. Volume of sales is greater than in 1923. Shipments in November amounted to \$803,285 and unfilled contracts on hand Nov. 30, for delivery up to June 30, amounted to \$5,060,000, which is at an annual rate of about \$10,000,000 against \$8,582,078 in 1923.

Atlas Powder Co. reports for 1923 net sales of \$19,616,170, against \$16,723,735 in 1922. Net income amounted to \$2,296,270, after all charges and Federal taxes, which was equal, after preferred dividends, to \$6.71 a share on the 261,438 shares of no par value common stock outstanding. Net income of \$2,006,662 reported in 1922, was equal, after preferred dividends, to \$16.82 a share on the \$8,714,625 of capital stock of \$100 a share par value outstanding. After payment of common and preferred dividends last year there was a surplus of \$710,823, against a surplus of \$613,780 reported in 1922. The profit and loss surplus on Dec. 31, 1923, was \$4,693,040.

Hercules Powder Co. for the year ending Dec. 31, 1923, earned \$12.57 per share on preferred stock, net income of \$2,508,669 after charges and taxes. This compares with \$11.16 and \$2,264,896 in 1922. Gross receipts were \$22,260,796 in 1923 and \$18,728,887 in 1922.

Brookline Chemical Co., Boston, reports surplus for the calendar year 1923 of \$37,692.



## The Heavy Chemical Market

Current Spot Quotations of Heavy Chemicals, page 502-504

### OXALIC ACID CUT SHARPLY BY MAKERS

Increased Competition Reason for Reduction—Acetone Reduced Further—Potassium Prussiate Lower—Sodium Prussiate Firmer—Sal Ammoniac in Small Supply on Spot—Caustic Potash Steady—Imported Epson Salt Higher—Moderate Activity in Chemicals

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced	
Sodium Hyposulfite, Imp., 15c 100 lbs.	
Declined	
Acetone, C.P., 2c lb.	Potassium Carb., 80-85%, calc., 1/4c lb.
Oxalic Acid, dom., 1/2c lb.	Potassium Prussiate, yel., 1/2c lb.

#### Trend of the Market

	Last Today	Last Week	Last Month	Last Year	War Peak	Pre- War
Acetic Acid, Glacial...lb.	\$1.23 1/4	\$1.23 1/4	\$1.23 1/4	\$1.12	\$1.19 1/4	\$1.07
Sulfuric Acid, 66 deg. ton	13.00	13.00	13.00	14.00	55.00	20.00
Ammonium Sulfate, 100 lbs.	3.00	3.00	3.00	3.30	7.50	2.65
Bleaching Powder, 100 lbs.	1.50	1.50	1.50	2.00	9.50	1.50
Copper Sulfate, c/1, 100 lbs.	4.55	4.55	4.65	6.00	20.00	4.50
Potash Caustic, Imp...lb.	.06 1/4	.06 1/4	.07	.07 1/4	.87	.08
Soda Ash, 38 p.c...100 lbs.	1.94	1.94	1.94	2.00	3.50	.60
Caustic Soda, 76 p.c. 100 lbs.	3.65	3.66	3.66	3.70	9.50	1.42
Potassium Bichromate...lb.	.09 1/4	.09 1/4	.09 1/4	.10	.65	.06 1/4
Sodium Prussiate...lb.	.11 1/4	.11 1/4	.11 1/4	.19	1.25	.18

Average ..... 3.005 3.005 3.015 3.148 10.79 2.99

General conditions in the market for industrial chemicals have undergone little change during the week. There is still a tendency among consumers to purchase only in moderate quantities for immediate consumption though in some directions orders have been increased to carlot business for future delivery. Consuming industries, especially textile and tanning industries, have been slow in recovering since the first of the year but some expansion is expected during the next month or two. Chemical manufacturers report a fairly steady call for deliveries on contract and many consumers are covered ahead in this respect. Spot stocks of imported chemicals have been gradually taken up and prices are generally steady in view of the smaller supplies.

Competition among domestic sellers and importers has accounted for another reduction in oxalic acid. Further advances in tin and lead have made their chemical derivatives stronger. Producers of acetone have announced another reduction. Yellow prussiate of potash is lower. Sal ammoniac is firm with spot supplies of imported material small. Potassium carbonate is quiet and inclined to be easy. Arsenic and calcium arsenate continue quiet. Caustic potash is steady. Sodium prussiate is firmer. Ammonium sulfate is unchanged though firmer as agricultural demand shows signs of increasing. Copper sulfate is unchanged. Bleaching powder and chlorine are steady. Heavy acids are in moderate demand while alkalis are moving regularly.

**Acid, Acetic**—Steady at former prices with demand somewhat routine. Calcium acetate appears firm and no changes are anticipated in prices. Makers quote 28 per cent at \$3.38@3.63; 56 per cent, \$6.75@7.00; 70 per cent, \$8.38@8.63; glacial, \$12.78@13.53.

**Acid, Oxalic**—Owing to keen competition in the market prices of domestic material have been cut to 11c lb. Imported is also easier though quoted at 11 1/4c@11 1/2c lb.

**Acetone**—Producers have reduced acetone to 19c@19 1/2c lb. for the C.P. Methyl continues at \$1.05@1.10 per gallon and acetone oils, \$1.25@1.30 gallon.

**Ammonium Sulfate**—Demand has been improving and prices are firmer than heretofore. Bulk at works named at \$3.00 per 100lbs.; single bags \$3.15 and export, f.a.s. \$2.85@2.90.

**Ammonium Chloride**—Imported white has been in small supply on spot and prices are firmer though no price change of importance is reported. White at 6 1/2c@6 3/4c lb. and grey, 7 1/2c@8c lb. Domestic at 7 1/4c@8c lb. for white and 8c@8 1/2c lb. for grey.

**Arsenic**—Demand continues slow and most of the business has been routine. While a demand is expected to develop eventually it is feared that it will come too late to be of benefit to the cotton growers. Prices are holding around 12 1/2c@13c lb. though a few odd lots have been sold under these figures. Imports last week at New York totaled 2,774 cases mainly from Kobe. Imports for 1923 totaled 21,149,545 lbs., of which 2,814,018 lbs. came in in December. Calcium arsenate is moving slowly with prices holding at 11 1/2c lb. for immediate delivery and up according to position.

**Barium Products**—Imported carbonate is quoted at \$63.00@65.00 ton spot and domestic at \$68.00@69.00 works. Chloride is easier with imported at \$82.00@83.00 ton and domestic \$80.00 ton at works. Nitrate, 8 1/4c@8 1/2c lb.; hydrate, 5 1/2c@6c lb.

**Bleaching Powder**—Demand from the mills is improving steadily and shipments are reported to be increasing. Prices are holding firm at recent levels at \$1.50 in large drums at works and up to \$1.90 for small drums and less than carlots.

**Copperas**—Continues easy with demand quiet. Quoted at \$16.00@17.00 ton in bulk, \$19.00@20.00 in bags and \$21.00@22.00 ton, in barrels, works.

**Copper Sulfate**—Industrial demand is reported fair while agricultural sections are anticipating their requirements. Prices are at low levels at 4 1/2c@5c lb. for domestic and 4 3/4c@5c lb. for imported.

**Potash, Caustic**—The recent firmer tone continues with demand restricted to routine quantities. Spot prices quoted at 6 1/2c@6 3/4c lb. for imported while domestic is named at 8c lb.

**Potassium Carbonate**—Demand is quiet and spotty with prices inclined to be easier. Calcined 80-85 per cent at 5 1/4c@5 1/2c lb.; 96-98 per cent, 5 3/4@6 1/4c lb.; 99 per cent, 7c@9c lb.

**Potassium Bichromate**—While demand has shown no further increases, prices remain firm at former levels. Makers quote 9 5/8c@10c lb. according to quantity.

**Potassium Prussiate**—Demand has been improving but prices continue to be shaded. Imported and domestic yellow offered at 19 1/2c lb. Red at 45c@48c lb.

**Soda Ash**—Contract deliveries are reported steady while new business is more or less routine at present. Contract business is named at \$1.38 for 58 per cent light in carlots of bags at works; barrels at \$1.63 and bulk, \$1.25. Spot business in less than carlots at \$2.04@2.19 in bags and \$2.29@2.44 in barrels.

**Soda, Caustic**—Little change in the situation with new business moderate and deliveries in contracts in



steady volume. Export business moderate at \$3.00@ \$3.10. Contract business at the works quoted at \$3.10 in cartons of 76 per cent in drums. Dealers quote 1c/l business at \$3.76@ \$3.91 delivered. Reports from Philadelphia indicate a price war is in progress and some low prices have been prevailing in that section.

**Sodium Bichromate**—A steady volume of business is reported with makers unchanged in their prices at 8¼c@8¾clb. as to quantity and seller.

**Sodium Prussiate**—Better demand is reported and prices are firmer than recently. Imported is named at 11½c@11¾clb. while domestic is offered at 12clb. at the works.

**Sodium Sulfide**—Inquiries have been more numerous and buying has been more encouraging. Prices are holding steady at recent levels with solid at 3¼c@4clb. and broken at 4c@5clb. Crystals at 2c@2¾clb. as to seller and quantity.

#### ACETATE OF LIME OUTPUT 11,813,706 LBS.

(Special to Drug & Chemical Markets)

Washington, D. C., Feb. 13—December production and stocks of acetate of lime and methanol, based on reports received from manufacturers have just been announced by the Department of Commerce. For the year 1923 the production of acetate of lime totaled 164,396,124 pounds, compared with 125,345,124 in 1922, while shipments totaled 161,091,798 pounds, against 164,189,061 in the previous year. During this period the output of methanol amounted to 8,593,727 gallons, compared with 6,808,911 gallons in 1922, while shipments of methanol totaled 8,000,617 gallons, against 7,626,761 in 1922. The following table gives the operations of wood-chemical plants for December:

	Acetate of Lime (in pounds)		Methanol (in gallons)	
1923	Production	Stocks end of month	Production	Stocks end of month
January .....	*15,720,938	*14,142,952	*893,418	*2,000,099
February .....	*13,469,524	*14,498,522	*730,590	*2,044,429
March .....	*14,959,573	*12,901,779	*791,457	*2,133,098
April .....	13,698,154	*11,892,803	713,643	2,194,789
May .....	14,822,716	*9,007,287	789,369	2,429,617
June .....	*14,439,164	*9,755,803	*736,806	*2,526,412
July .....	*13,179,716	*9,767,173	*652,955	*2,669,895
August .....	*12,860,416	*14,623,749	*654,822	*2,866,218
September .....	*11,674,842	*18,034,111	*574,124	*2,902,923
October .....	*12,972,591	*18,548,830	*666,364	*2,881,938
November .....	*14,684,883	*19,249,053	*756,746	*2,726,866
December .....	11,813,706	18,799,752	624,433	2,592,298

\*Revised

#### WHITE HEADS CARBIDE SALES

Robert W. White, formerly assistant general sales manager, Linde Air Products Co., New York, has become sales manager for the Carbide & Carbon Chemicals Corp. At Linde Co., L. M. Zemmer becomes successor to Mr. White. Herman Ullmer has been made assistant sales manager, Western Division, for Linde; E. E. Radcliffe, Eastern Division; and F. E. Stoppenbach, district sales manager, New York.

Considerable holdings of chemical securities were shown in the appraisal of the estate of William Rockefeller's eldest son, William G., in the Greenwich Probate Court recently. Clinchfield Products and Rollin Chemical, 1,400 shares; Commercial Solvents, \$37,500; National Drug Stores note; \$235,000 Tate Electrolytic Process note; and an equity in Commercial Solvents stock syndicate were among those listed. Mr. Rockefeller's total estate amounted to over \$8,000,000.

E. A. Johnson, formerly sales manager, National Aniline & Chemical Co. at Akron, O., will be connected with the New York sales staff of the Monsanto Chemical Works.

#### AIR NITRATES 20 YEARS BEHIND EUROPE IN U. S., SAYS APPEAL TO PRESIDENT

C. F. Graff Appeals for Broad American Nitrogen Fixation Industry—Against Concentration at Muscle Shoals—American Nitrogen Cites German Production

The U. S. is 20 years behind Europe in its nitrogen fixation industry, according to C. F. Graff, president, American Nitrogen Products Co., in a letter to the President and members of Congress. In appealing for Government aid to build up a broad air nitrate industry in the U. S., he protested against concentration of the industry at Muscle Shoals, and said his company would do as much as Mr. Ford in regulation and distribution of fertilizers and limitation of profits.

The letter said in part "Our proposed governmental policy of air nitrogen encouragement will be broad and include Muscle Shoals; it will serve to quickly establish the industry now ten to twenty years behind other countries; it will stimulate, rather than retard, competition, and reduce costs; it will tend to prevent monopoly and benefit the whole country. . . . Without deprecating, in the least, the wonderful possibilities at Muscle Shoals and its strategic location, we say to the government, to agriculture and the public; if we are to have an air nitrogen industry in this country, let it be one that will challenge the world; one dependent, not upon only one plant and process but several plants so located, and several processes so chosen, as to most efficiently and cheaply produce nitrogen in its various forms for the benefit of the whole country rather than one particular section."

The soundness of our plan for the establishment and encouragement of several air nitrogen plants and processes judiciously distributed throughout the United States, fostered by the government during the period of infancy and growth, must be admitted when one remembers that Germany, with her short-haul freighting, successfully operates several air nitrate plants, at least two of which, viz., Merseburg and Oppau, exceed in capacity by several times the proposed production of nitrogen at Muscle Shoals under the Ford plan. Merseburg's annual capacity of fixed nitrogen is 220,000 tons; Oppau's is 110,000 tons, and that of Germany as a whole is 400,000 tons, as compared with the proposed guaranteed production by Mr. Ford at Muscle Shoals of only 40,000 tons, or approximately one-fifth of this country's present demand for nitrogen in the form of fertilizer alone. As a result, Germany is today practically self-sufficient as to her nitrogen needs and is importing scarcely at all. She is, in fact, preparing to export. Norway is in the same enviable position, and other countries are trailing close behind."

#### COMMITTEE RECOMMENDS FORD'S OFFER

(Special to Drug & Chemical Markets)

Washington, D. C., Feb. 13—Acceptance of Henry Ford's offer for Muscle Shoals is recommended by the House Committee on Military Affairs, in reporting the bill to the House. Of the several offers the committee stated that Mr. Ford's is clearly the best proposal as it includes both the power and nitrate plants, gives assurance that the benefit of economical production of fertilizers will be passed on to the consumer, furnishes a reasonable financial return to the Government, and makes a provision for the maintenance of nitrate plant No. 2 ready for immediate production of military explosives.

The bid for Muscle Shoals by Hooker Electrochemical Co. was made in conjunction with W. W. Atterbury, vice president of the Pennsylvania Railroad.

## The Intermediate and Dye Market

Current Spot Quotations for Intermediates, see Chemicals, page 500

### PHENOL SUPPLIES CONTINUE SMALL

Prices Gradually Moving Upward as Spot Stocks Decrease—Cresylic Acid Lower Due to Increased Supplies—Benzene and Toluene Strong—Diethylaniline in Small Supply—Gamma Acid Lower—Quiet Demand for Intermediates

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced  
Solvent Naphtha, 1c gal. Phenol, 1c lb. Xylene, Com., 1c gal.  
Declined  
Cresylic Acid, 97-99%, 2c gal.

	Trend of the Market					
	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Benzene, pure .....	gal. \$24	\$24	\$20	\$30	\$1.10	\$26
Naphthalene flake .....	lb. .06½	.06½	.06½	.06	.16	.03
Phenol, Spot .....	lb. .37	.37	.38	.35	1.50	.08
Toluene .....	gal. .26	.26	.22	.30	..	..
Aniline Oil .....	lb. .16	.16	.16	.16	1.40	.10½
Alpha-naphthylamine .....	lb. .35	.35	.35	.28	1.28	..
Benzaldehyde .....	lb. .75	.75	.75	.60	..	..
Betanaphthol .....	lb. .26	.26	.26	.24	1.50	.08
Dimethylaniline .....	lb. .37	.37	.38	.42	1.30	..
Paranitroaniline .....	lb. .70	.70	.70	.73	1.58	.18
Average .....	0.353	0.353	0.345	0.346	..	..

Developments in the industries which consume coal-tar products have not been sufficient to cause any increase in business beyond routine buying in most products. Except for an occasional flurry, buyers are inclined to order only sufficient quantities for immediate consumption and usually these orders are accompanied by requests for immediate delivery. According to factors in the trade, developments in the textile industry are gradually improving over the recent dull period and the next month or two are expected to see a considerable change in the situation.

Phenol continues in limited supply and consumers are having difficulty in locating material in the open market. When the market appears to be bare of stocks, another lot or two makes its appearance. Inquiry was reported active during the week but prices held around the recently quoted levels. A large order would find a sudden stiffening in price and buyers are confining their orders to lots of a few thousand pounds. Cresylic acid has been coming in more freely and lower prices are announced by importers. Benzene and toluene are holding their recent advances and producers report an active demand. Toluene is scarce and is the strongest of the two. Steel mills and coke ovens are operating at high capacity and supplies are increasing but the demand for benzene for fuel purposes is keeping pure products in small volume. Naphthalene for future delivery is normal. Intermediates are marking time while waiting for improved demand. Diethylaniline is higher on small supply. Anthraquinone continues firm at recent prices. Aniline oil is steady.

#### Coal-Tar Crudes

**Benzene**—Demand for pure has been increasing and prices are higher in some quarters. Increased production of pure, however, would probably find a softening in prices owing to competition provided there is no further change in the gasoline market. Motor benzene continues in active demand. Ninety per cent is higher at 23c per gallon in tanks and 28c in drums. Pure is quoted at 24c@25c in tank cars and 29c@30c in drums.

**Cresylic Acid**—Supplies have been increasing owing to a lessened demand and a larger number of importers in the field. One importer has reduced prices to 70c for pale 97-99 per cent in single drums. Others quote up to 78c. Dark offered at 70c@75c and crude at 60c@65c gallon. Imports at New York last week totaled 137 drums acid and 184 drums distillate.

**Naphthalene**—No new developments are reported with makers busy on orders for later delivery. Supplies appear adequate this year and prices are apparently stationary at 6c@6½clb. for flake, 7c@7½clb. for balls and 5½c@6clb. for crushed. Crude at 2¼c@3clb. as to grade. Importations for 1923 totaled 21,036,458 pounds compared with 3,144,332 pounds for 1922.

**Naphtha, Solvent**—Demand continues along steady lines with prices strong at recent quotations. Tanks are quoted at 24c@25c and drums 29c@30c gallon.

**Phenol**—Inquiries have been more numerous but business has been restricted because of the present high prices and scarcity of supplies. Producers are sold well in advance or are not offering at present while in the open market only odd lots are available here and there. Sales have been reported at 36½clb. while general quotations are named at 37c@38clb.

**Pyridine**—Offerings are reported at \$3.50 per gallon on spot while shipments are named at \$3.00 per gallon.

**Toluene**—Supplies are in small volume and sellers are now quoting 26c gallon in tanks and 31c in drums. With demand active producers are having some difficulty in making shipments promptly.

**Xylenes**—While no large demand prevails prices are firm owing to the recent strength in light oils. Commercial named at 27c@28c in tanks and 32c@33c in drums; 10 degree at 34c in drums; 5 degree, 31c@36c gal.; 3 degree, 40c@45c gal., the inside prices being for tank carlots.

#### Intermediates

**Acid, Gamma**—Makers are lower in their prices with quotations at \$1.50@1.60.

**Acid, H**—Regular demand being met with prices holding at 72c@77clb.

**Acid, Neville & Winther's**—Steady at \$1.05@\$1.10 on routine demand.

**Alpha-naphthylamine**—Makers continue to quote 35c@37clb. as to quantity. Demand reported confined to moderate quantities.

**Aniline Oil**—Steady at 16c@17clb. according to quantity in makers' hands. Aniline salt held at 23c@24clb.

**Benzidine**—Quiet demand with prices unchanged at 80c@84clb. as to seller and quantity.

**Beta-naphthol**—Makers continue to quote 24c@26clb. with most of the sales reported at 26clb. A few sales are reported in the open market occasionally around 25clb.

**Dimethylaniline**—Quoted at a range according to seller at 37c@39clb.

**Diethylaniline**—Supplies are in small volume and holders are naming 55c@60clb.

**Ortho-toluidine**—Unchanged on routine demand at 13c@15clb.

**Para-nitraniline**—Buyers taking moderate quantities at prices ranging from 68c@73c/lb.

**Para-toluidine**—Steady at 85c@90c/lb. as to quantity.

### MAY REVISE DYE IMPORT REGULATIONS

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Feb. 13—It is understood that the Committee to Revise the Customs Regulations of 1915 will meet in New York this week and that one of the matters to be given special consideration will be the revision of the present dye import regulations against which there has been protest. Officials of the Treasury Department seem to feel that there is little chance of having any changes made in the present regulations.

### SUES METZ ON DYE EMBARGO DATA

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Feb. 13—A suit has been filed in the Supreme Court of the District of Columbia by Edward A. Deeters, against Herman A. Metz to recover \$6,765 which he claims is due him for work in connection with the compilation of data during the recent fight on the dye embargo in Congress. Deeters states in his petition that the original expenses were \$14,765.

### C. M. TURNER LEAVES NEWPORT

C. M. Turner has resigned as president of the Newport Chemical Works, Passaic, N. J., effective Mar. 1, to become director of sales for the National Enameling & Stamping Co. Mr. Turner has been associated with the Schlesinger interests for fifteen years, and leaves an enviable record behind him. The business of Newport will be carried on under the direction of Elvin H. Killheffer, vice-president.

E. S. Chapin, Boston, who has been studying conditions in chemicals and dyestuffs in France and Germany for the past six months sailed for home on February 5.

In the new lines of wool piece goods opened, last week, by American Woolen Co. for Fall 1924, the company is featuring the more conservative color effects.

C. F. Weber, former president of the National Aniline & Chemical Co., sailed for Europe last week.

### URGE RESEARCH IN USE OF COLORS

Considerable progress in color standardization in several industries that use colors was reported at the annual meeting of the Textile Color Card Association of the United States. Distinct progress in color work was reported in the cotton goods, the knitted underwear and the shoe and hosiery trades, in which color standardization is not of as long standing as in the silk and woolen goods trades.

Margaret Hayden Rorke, managing director of the association, reviewed this progress at some length in her report and added that the association now has a membership of 1,094 and is gaining rapidly, 193 new members having been added in 1923.

M. D. C. Crawford, research editor of "Women's Wear," urged the textile trades to spend more time and money on color research work, asserting that the textile manufacturers have come to recognize the fact that goods are now sold on their esthetic value rather than their utilitarian value or intrinsic worth.

The board of directors was re-elected and the officers retained. They are Frederick Bode, president; William Hand, first vice-president; Albert L. Gifford, second vice-president; Adolf Muller, treasurer, and Carl Forsch, secretary.

### PICKHARDT SAILING REVIVES PACT RUMOR

The sailing of Paul Pickhardt, Kuttroff, Pickhardt & Co., American sales agents for the Badische Anilin corporation, last Saturday for Germany, has revived rumors in New York of a German-U.S. dye pact similar to that between England and Germany. American dye manufacturers evidently see little in an agreement of this nature, however, and deny the reports. The newspaper reports that an agent of Bayer was enroute to the U. S. to negotiate with American makers, has been answered by Grasselli Chemical Co., American agents, with the statement that they have not heard of a Bayer representative leaving Frankfurt for the U. S.

F. G. Erskine, sales manager, Tower Manufacturing Co. and the New Brunswick Chemical Co., New Brunswick, N. J., has resigned to join the firm of Victor & Hosken. Victor & Hosken will take over the sales of Tower and New Brunswick products in the Southern States.

### JANUARY DYE IMPORTS

(Continued from Page 478)

Schultz No.	Dye & Maker	Quantity Pounds
564	Naphthalene green	551
371	Naphthalene green V-c-M	2,732
573	Rhodamine 6GDN extra-ne-B	3,845
	Rhodamine B extra-c-B	
	Rhodamine B extra-S	
	Rhodamine B extra-Q	
580	Fast acid violet B	100
	Fast acid violet B-M	
608	Acridine orange	506
	Rhodulene orange NO-c	
	Brilliant acridine orange A-DH	
606	Phosphine	929
	Coriophosphine OX extra-c-By	
	Leather yellow A pdr-Q	
608	Euchrysine	122
	Euchrysine G extra-c-By	
618	Thioflavine T	2,082
	Thioflavine T-C	
	Thioflavine TCN-ne-C	
	Basic yellow T-C	
627	Anthracene	441
	Modern royal blue-ne-DH	
635	Modern violet	110
	Blue 1900 TCD-ne-DH	
645	Gallazine	220
	Gallazine 90-DH	

Schultz No.	Dye & Maker	Quantity Pounds
659	Methylene blue	1
	Toluidine blue TN-M	
672	Azo carmine	2,000
	Azo carmine GX-B	
684	Rhodulene violet	2
	Rhodulene red B-By	
699	Induline (water soluble)	100
	Induline NN-B	
709	Pyrogene green	4,630
	Pyrogene green 3G-c-I	
754	Kryogene violet 3RX	400
	Kurgan violet 3RX-B	
789	Anthraflavone G	4,060
	Anthraflavone GC paste-B	
	Anthra yellow GC paste-B	
760	Indanthrene golden orange G (single strength)	1,710
	Vat golden orange G dbl. paste-B	
	Duranthrene golden orange Y paste-BD	
761	Indanthrene golden orange R (single strength)	10,791
	Indanthrene golden orange RRT paste-ne-B	
	Helindone golden orange IRRT paste-ne-M	
	Helindone golden orange IRRT pdr-M	
	Vat orange RRT paste-ne-B	

Schultz No.	Dye & Maker	Quantity Pounds
768	Indanthrene dark blue BO	300
	Indanthrene dark blue BO paste-B	
765	Indanthrene green B (single stgh.)	864
	Indanthrene black BB dbl. paste-c-B	
767	Indanthrene violet RR (single stgh.)	220
	Indanthrene violet RR dbl. paste-c-Q	
774	Alizarin black	653
	Alizarin black S paste-M	
	Alizarin black WR-B	
778	Alizarin, synthetic 20% paste	619
	Alizarin VI extra pure-c-B	
	Alizarin red DIB new-M	
779	Alizarin orange	3
	Alizarin orange SW pdr-B	
780	Alizarin red	323
	Alizarin red S pdr-B	
	Alizarin red W pdr-By	
785	Alizarin red RG, GI	1,000
	Alizarin red SDG paste-M	
790	Acid alizarin blue	495
	Acid alizarin blue BBN-M	
	Anthracene blue SWR-B	
	Anthracene blue SWGG ex-B	
792	Cibacron orange R (single strength)	5,206
	Cibacron orange R pdr-ne-I	
816	Algol red 5G (single strength)	440
	Algol red 5G pdr-By	

(Continued on Page 493)



## The Oil Market

Current Spot Quotations of Oils, Tallows, Greases, page 579

### LINSEED OIL ADVANCED BY CRUSHERS

Rising Seed Prices Cause of Increase—Cottonseed Oil Recovers Slightly—Olive Oil Holding Firm at Recent Advance—Short Crop Ahead—Neatsfoot and Oleo Oil Down—Lard Oils Easier—Lower Grades of Rosin Firm

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced		Declined	
Cottonseed Oil, crude, ½c lb.	Linseed Oil, 2c gal.	Oleo Oil, ½c lb.	
P.S.Y., ¼c lb.	Red Oil, ¼c lb.	Stearine Oleo, ½c lb.	
Chinawood Oil, spot, ¼c lb.		Tallow Oil, Acidless, ¼c lb.	
Shpmt., ¼c lb.		Turpentine, 3c gal.	
Corn Oil, crude, ½c lb.		Rosins, higher grades, 15c@25c	
Lard Oil, ¾c@¾c lb.			
Neatsfoot Oil, ¾c@¾c lb.			

#### Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Cod Oil, N. F.....gal.	\$.68	\$.68	\$.68	\$.62	\$1.26	\$.36½
Degras, American, bbls..lb.	.04¼	.04¼	.04¼	.04¼	.28	.03½
Lard, No. 1.....gal.	.81	.81	.85	.97½	2.90	.92
Menhaden, crd., bbls..gal.	.50	.50	.50	.53	1.20	.38
Neatsfoot, 20 deg. c.t..gal.	1.27	1.31	1.30	1.29	3.45	.95
Red Oil, distilled.....gal.	.09¼	.09¼	.09¼	.11½	.17	.07
Stearic Acid, T.P.....lb.	.13¼	.13¼	.13¼	.15¼	.33	.12
Coconut, Ceylon, bbls..lb.	.10	.10	.10	.09¼	.90	.14
Cottonseed, crude, ½c..lb.	.08¼	.08¼	.10	.10	.25	.08
Linseed, carlots.....gal.	.94	.92	.92	.96	1.88	.57
Olive, denatured.....gal.	1.18	1.18	1.15	1.15	4.50	1.05
Peanut, refined.....lb.	.16	.16	.16	.16½	.30	.08
Soya Bean, bbls.....lb.	.11¼	.11¼	.11¼	.12¼	.19¼	.07
Average .....	.0468	.0470	.0474	.0491	1.30	.0362

While business in vegetable and animal oils was termed quiet during the week, and a few declines have been noted, a firmer undertone is noticeable. Buying has been confined mainly to spot and nearby positions with consumers taking small quantities and waiting for developments. Imports have been increasing and supplies have increased slightly on spot.

Crushers have advanced prices for linseed oil following the recent advances in seed prices here and in Argentina. Cottonseed oil has recovered slightly after the recent weakness in the market. Olive oil continues firm at the recent advances. Coconut and palm oils are unchanged. Rapeseed oil is firm at higher levels. Lard oil is easier, while neatsfoot oil and oleo oil have been reduced. Red oil is slightly higher. Fish oils are firm and in limited supply. Turpentine is quiet and easier. Lower grades of rosin are firm while better grades are lower.

#### Vegetable Oils

**Castor Oil**—Prices continue firm with crushers quoting 15c lb. for No. 1 and 14½c lb. for No. 3.

**Chinawood Oil**—Prices are slightly lower with buying confined to small quantities for nearby delivery. Quotations from China have not been coming in owing to holidays in that country. Spot and shipment prices named at 19½c lb. while tanks at Coast held at 18½c lb. Imports for 1923 totaled 11,638,890 gallons against 10,545,239 gallons in 1922.

**Coconut Oil**—Sales have been routine with prices steady at 8½c@9c lb. for Ceylon in tanks on spot Cochin at 9½c@9¾c lb. Manila at the Coast, 8½c@8¾c lb. Imports at New York last week were 1,443 tons. Imports for 1923 totaled 90,941 tons against 113,060 tons in 1922.

**Corn Oil**—Prices are slightly easier with crude at 9½c@9¾c lb. in tanks at mills. Refined is holding at 13c@13¼c lb.

**Cottonseed Oil**—The market has recovered a trifle after the continued weakness due to liquidation of stocks. Firmness in lard and tallow has also been a contributing factor in strengthening the market. Crude oil named at 8¾c lb. P.S.Y. quotations opened the week at 10.00@10.35 for Feb. up to 10.70@10.80 for Sept. Refined oil named at 13¼c lb. for winter yellow and 13½c lb. for white.

**Linseed Oil**—Recent strength in seed prices has caused crushers to advance prices for spot and future deliveries. Carlots on spot and Feb.-Apr. named at 93c@94c and May-Aug., 92c. London linseed oil advanced 4s to 50s per quintal. Antwerp, advanced 18f to 480f per 100 kilos. Flaxseed shipments have not been coming in in quantity and prices in primary markets are higher. Winnipeg, May opened the week at \$2.41; July, \$2.38½. Duluth, cash, \$2.61¼@2.67¼; Feb., \$2.61½; Mar., \$2.61½; July, \$2.59. Buenos Aires, 4c higher at \$1.68½.

**Olive Oil**—Latest cables state that no oil may be exported without Government permission. The crop is far below normal and prices are strong though unchanged on spot at \$1.18@1.20 for denatured; edible, \$2.00@2.10 gal. Foots firm at 10c@10¼c lb.

**Palm Oil**—Steady at 7½c@7¾c lb. for Niger on spot and 8c@8¼c lb. for Lagos. Buying mainly routine. Imports at New York in 1923 totaled 128,494,679 pounds against 57,516,889 lbs. in 1922.

**Soya Bean Oil**—Spot supplies are small and prices are holding firm with business restricted to actual requirements. Spot oil at 11½c@12c lb. and 10c lb. in tanks at Coast. Imports in 1923 were 41,679,110 lbs against 17,294,094 lbs. in 1922.

#### Animal Oils

**Lard Oil**—Supplies have been in better volume and prices have been reduced. Edible prime lower at 14½c lb.; extra, 11¼c lb.; extra,

**Neatsfoot Oil**—Quiet with routine buying. Prices reduced to 17c lb. for 20 degree; pure, 13¾c lb.; extra, 10¾c lb.

**Oleo Oil**—No. 1 is offered at lower prices at 15¼c@15½c lb. while No. 2 and No. 3 are unchanged at 11c lb. and 10¼c lb.

**Red Oil**—Has been considerably stronger owing to the recent advances in olive oil. Demand is reported active. Higher in some quarters with a range according to seller at 8½c@9¼c lb. in barrels for distilled and saponified.

**Stearic Acid**—Unchanged with demand along steady lines. Single pressed named at 12c lb.; double pressed, 12¼c lb.; triple pressed, 13¼c@13¾c lb.

**Stearine Oleo**—Slightly lower at 9¾c lb.

**Tallow**—Firm at 7½c@8c lb. for the extra. Supplies have been reduced materially and the market is steadier. Exports from this country in 1923 were 34,671,935 lbs. inedible and 1,204,303 lbs. edible against 29,000,472 lbs. inedible and 2,375,803 lbs. edible in 1922.

**Tallow Oil**—Acidless is easier with tanks named at 9¾c lb. and barrels, 10½c lb.



### Fish Oils

**Cod Oil**—Newfoundland is firm on improved demand at 68c@73c gallon. Imports of cod and cod liver for 1923 totaled 2,396,565 gallons against 1,809,478 gallons in 1922.

**Menhaden Oil**—Crude is scarce and nominal. Refined oils are named at 65c@66c for light pressed; yellow bleached, 68c@69c gal.; extra bleached, 69c@70c gallon.

**Sperm Oil**—Improved demand with prices steady at 89c gallon for 38 degree, spot and 84c for 45 degree. New Bedford prices, 5c less. Whale oil imports for 1923 were 3,977,003 gallons.

### Naval Stores

**Turpentine**—Quiet demand and prices have declined to \$1.00 gallon on spot while Savannah prices are named at 95c. Exports from United States for 1923 totaled 11,478,459 gallons against 9,369,403 gallons in 1922.

**Rosins**—Lower grades are in smaller supply and prices are firmer than in better grades which have declined 15c@25c. Exports for 1923 were 1,205,649 bbls. as compared with 799,174 bbls. in 1922.

### TURPENTINE STOCKS AT SAVANNAH

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Savannah, Ga., Feb. 9.—Turpentine closed "nothing doing" with last official sales at 95c. Buyers have been indifferent but fair shipments have been going out from stocks on hand. Stocks are large enough for consumers' needs between now and April. Stocks, 12,088 bbls.; shipments, 796 bbls., sales, not including P.T. sales, 97 bbls.; receipts for week, 446 bbls. Rosin closed firm with undertone improving after decline of 15c to 25c earlier in the week which improved business. Lower grades are in demand, especially I grade, since these are in small proportion in available stocks, and since early crop is practically all fine grade and common grades do not arrive until May. Prices are expected to go a little higher. Receipts this week, 5,023 bbls.; sales reported, 2,368 bbls.; shipments, 13,886 bbls.; stocks, Sav., 108,338 bbls. Jacksonville: Turpentine closed quiet at 94c; Rosin firm and steady. Stocks, Feb. 8, turpentine, 24,295 bbls.; rosin, 125,608 bbls.

### PRODUCTION OF OILS IN THREE MONTHS

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Feb. 13.—Factory production of fats and oils during the three months ended Dec. 31, according to the Department of Commerce, was as follows: Vegetable oils, 771,081,452 pounds; fish oils, 19,266,991 pounds; animal fats, 628,023,324 pounds; and grease, 101,832,480 pounds; a total of 1,520,204,247 pounds. Greatest production, 516,578,731 pounds, appears for edible and neutral lard. Next is cottonseed oil with 500,719,865 pounds, linseed oil with 165,559,777 pounds, tallow with 111,300,226 pounds, cocoanut oil with 65,513,933 pounds, and corn oil with 27,723,963 pounds.

Production of refined oils was as follows: Cottonseed, 343,255,681 pounds; cocoanut, 54,052,948 pounds; peanut, 1,865,323 pounds; soya bean, 1,238,650 pounds; corn, 20,597,222 pounds, and palm kernel 153,987 pounds.

Olive oil has been added by the Tariff Commission to the list of commodities to be included in the investigation ordered into vegetable oils under the flexible provisions of the tariff law. The commission intends to make its vegetable oil investigation as broad as possible.

### OLIVE OIL PRICES ADVANCING

#### Italian Crop Short—European Countries Outbidding America—Spain May Levy Export Tax

Higher prices for commercial olive oil are prophesied by prominent importers owing to the short crop of olives this year in Spain and Italy. Not only is the crop smaller this year but it is also from four to six weeks later than normal because of a long dry spell during the maturing period of the fruit. Already prices have advanced about ten cents a gallon in this country and shipment prices have been advancing steadily since the first of the year.

The situation in Spain has been sufficient to cause the Government to consider an export tax on olive oil this year. This may have been due to pressure from olive oil interests, having made contracts at the usual prices, find themselves unable to meet their obligations and are seeking to annul their contracts in this way. No action has been taken yet but according to reports from abroad a referendum on the matter has been under consideration for some time. Italy is also short of olive oil and is turning to Spain for her added requirements. Bids for supplies at present indicate that European countries are outbidding American importers.

Production of olives in Spain for the 1922-23 season totaled 1,539,551 metric tons, of which, 1,507,191 metric tons were used in producing oil. The crop this year is expected to fall far below this amount while the world consumption has been increasing. Imports in this country in 1923 amounted to 82,604,395 pounds as compared with 64,758,351 pounds in 1922.

The shortage has also affected castile soap and prices from abroad are unsettled. Commercial olive oil is used to a large extent in the textile industry while olive oil foots or sulfur olive oil, obtained by extraction with carbon bisulfide of the pulp after the first pressings for pure oil, is used in the manufacture of soap in this country.

Latest cables from Spain state that no olive oil may be exported without permission from the Government. Estimates of the oil production for 1923-24 in Spain are placed at 180,000 to 182,000 tons against a normal output of 280,000 to 300,000 tons. Italian production is estimated at 110,000 tons, the same as 1921 as against 210,000 tons in 1920. Tunis estimates are placed at 20,000 tons against an average yield of 50,000 tons.

### OLIVE OIL PRICES HIGHER IN ITALY

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Genoa, Italy, Feb. 2.—The higher value of the lira, and better demand for export caused an advance in the prices of olive oils. Quotations per 100 kilos follow: Riviera Ponente, fine, lire 790 to 800; Riviera Ponente, ordinary, lire 760 to 770; Bari extra, lire 790 to 800; Bitonte extra vecchio, lire 830 to 840; Molfetta extra, lire 820 to 825; Calabria extra, lire 760 to 770; Sardegna fine, lire 800 to 810; Toscana fine, lire 800 to 810; Abruzzi fine, lire 750 to 770; refined olive oil, lire 820 to 830. Quotations for foreign olive oils, c.i.f., Genoa, per 100 kilos are as follows: Tortosa olive oil, pesetas 250 to 260; Aragon olive oil, pesetas 254 to 260; Berjas olive oil, pesetas 240 to 245; Andalusian olive oil, pesetas 220 to 245; Malaga, pesetas 205 to 220; Tunis olive oil, first quality, francs 700 to 710; second quality, francs 680 to 690.

Oil Trades Association of New York held its eighth annual dinner on Feb. 6 at the Waldorf-Astoria Hotel. About 250 members and guests attended. Dennis E. Bergen, president, acted as toastmaster.

## The Fine Chemical Market

Current Spot Quotations of Fine Chemicals, page 500

### MERCURY ADVANCES IN ACTIVE MARKET

London Quoting £9 12s 6d per flask—Amidopyrine and Antipyrine Lower—Imported Tartaric Acid Firmer—Japanese Camphor Again Lower—Iodine Easier—Imported Citric Firm and Active

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced		Declined	
Acid, Tartaric, Imp., ½ lb.	Mercury, 50c flask	Iodine, Resublimed, 15c lb.	
Amidopyrine, 10c lb.		Iron Phosphate, 10c lb.	
Antipyrine, 10c lb.		Mercury Bichloride, 5c lb.	
Camphor, Jap., Slabs, 1c lb.	Potassium Iodide, 15c lb.		

#### Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Acetanilid .....	\$32	\$32	\$32	\$35	\$2.00	\$2.20
Acid Citric, Import .....	.48	.48	.47	.48½	1.25	.45
Caffeine Alkaloid .....	4.00	4.00	4.00	3.75	18.00	3.65
Calorel, American .....	1.10	1.25	1.25	1.25	3.43	.90
Camphor, Jap., ref. ....	.78	.79	.84	.90	3.55	.41
Iodine, Resublimed .....	4.40	4.55	4.55	4.50	5.00	3.75
Menthol .....	12.75	13.00	12.00	8.00	13.50	3.00
Potassium Bromide, Cryst. ....	.30	.30	.26	.25	4.30	.80
Quinine Sulfate, Imp. ....	.50	.50	.50	.49	.90	.25
Sodium Salicylate .....	.40	.40	.40	.52	4.25	.22
Strychnine Sulfate .....	.68	.68	.68	.84	2.05	.50
Average .....	2.34	2.30	2.30	1.95	5.92	1.56

The first month of 1924 has seen little change in the basic situation in the fine and medicinal chemical market, demand continuing restricted principally to routine needs of seasonable items. The exact trend of prices appears difficult to ascertain owing to the mixed ideas in the trade. A number of strong items are in evidence, but price cutting and underselling are being done, much to the detriment of attempts to stabilize the market. Stocks with few exceptions are none too heavy, although some recent arrivals have been large, but reports are heard that they were mostly "sold to arrive." Acids in Italy appear to be firming up and with the best consuming season coming on a general trend upward is expected.

Antipyrine and amidopyrine are quoted at lower levels, due to keen competition for business. Imported tartaric has firmed up slightly and is now quoted at 27½c per pound. Japanese camphor slabs have eased off again, owing to weak demand and stiff competition. Iodine has been reduced by first hands. Imported citric acid is in active demand and reports are heard that stocks here have been reduced materially during the past fortnight. Mercury is on the upward swing and a firmer market is in evidence than for some time past.

**Acetanilid**—Makers report a quiet market at 32c@33c lb. spot, and 29c@30c lb. from resale quarters.

**Acid, Acetylsalicylic**—Quoted steady at 75c@85c lb. spot by manufacturers with material in second hands named at 71c@74c lb.

**Acid, Benzoic**—Quoted at 75c@85c lb. spot for U.S.P. by first hands, and 72c@77c lb. from resale quarters.

**Acid, Citric**—Imported is quoted firm and active at 48c@49c lb. spot owing to a reduction of stocks and higher replacement costs. During past week 350 kegs were entered at New York. In 1923 820,370 pounds were imported, valued at \$250,845, compared with 112,686 pounds, valued at \$40,442, in 1922. Domestic named steady at 48c@49c lb. as to quantity.

**Acid, Diethylbarbituric**—Imported named at \$4.00 lb. spot with possibility of shading this figure on firm business.

**Acid, Salicylic**—U.S.P. quoted at 35c lb. spot by makers, and resale also at 35c lb. Demand quiet at the moment, although a fair volume of small lot material has passed into consumption.

**Acid, Tartaric**—Imported higher at 27½c@28c lb. spot as to quantity. Last week saw 645 kegs imported at New York. Imports during 1923 were 2,653,919 pounds, valued at \$641,597, compared with 628,972 pounds, valued at \$171,567, in 1922.

**Alcohol**—While prices continue firm, lessened consumption of this item has resulted in a better supply. A few more cold "snaps," however, will, no doubt, reduce this amount materially. No. 1 specially denatured quoted at 48c@50c gal. in drums, No. 5 completely denatured at 47c@49c gal., and No. 6 completely denatured at 46c@48c gal.

**Aloin**—U.S.P. named firm at 90c@95c lb. spot.

**Amidopyrine**—Has declined and now quoted at \$4.50 @ \$4.65 lb. spot due to small demand and keen competition for available business.

**Antipyrine**—Quoted sharply lower at \$2.15@2.25 lb. spot.

**Bay Rum**—St. Thomas named at \$1.20@1.30 gal. spot, and Porto Rican at \$1.50@1.60 gal. for material denatured with salicylic acid.

**Bismuth Subnitrate**—Quoted at \$2.90 lb. by first hands, and \$2.80 lb. from second hand quarters.

**Caffeine Alkaloid**—Named at \$4.00@4.25 lb. spot by makers, and \$3.75 lb. by second hands.

**Camphor**—Japanese slabs have declined again and now quoted at 78c@79c lb. spot with the possibility of doing 78c lb. on firm orders. Some factors state that this item can decline 25 per cent more and still be in line with manufacturing costs. Last week 550 cases were imported at New York. Domestic named at 93c lb. in barrels.

**Cod Liver Oil**—Norwegian quoted at \$22.50@23.00 bbl. spot. Imports of cod and cod liver oil during 1923 were 2,396,565 gallons, valued at \$1,334,684, compared with 1,809,478 gallons, valued at \$855,563, in 1922. Last week saw 185 barrels entered at New York.

**Cream Tartar**—Imported easy at 22c@23½c lb. spot, and domestic at 23c lb.

**Formaldehyde**—Makers quoted firm at 11c lb. works for c/l and 11c lb. from resale quarters. Demand active, especially for export.

**Glycerin**—C.P. quoted steady at 16½c@17c lb. spot in drums, and 18c@18½c lb. in cans. Dynamite quiet at 15c@15½c lb. with possibility of shading these figures on firm business. The approach of Spring has not affected the price of this item as yet.

**Iodine**—Resublimed has declined owing to weaker replacement costs and is now quoted at \$4.40 lb. in jars.

**Menthol**—Natural quoted on spot at \$12.75@13.25 lb. as to quantity with Mar.-Apr. shipment named at \$11.00 lb. c.i.f. New York. Synthetic at \$9.00 lb. "to arrive." The market on the natural is not expected to be affected at the moment by the introduction of the synthetic

material, but no doubt this new product shows possibilities.

**Mercury**—Has advanced and now quoted at \$60.00@ \$61.00 flask spot due to recent active demand and higher replacement costs. Heavy purchases that were made some months ago have about been removed from active competition with goods coming on the market now. Calomel, however, is lower owing to the usual lag behind the metal market. Quoted at \$1.10lb.

**Potassium Iodide**—Lower at \$3.60@\$3.65lb. spot.

**Santonin**—Market quiet at the moment at \$140@\$145 lb. spot for crystals, and \$142@\$148lb. for powdered.

#### RAISING PHARMACEUTICAL BUILDING FUND

At a meeting of the board of directors of the American Pharmaceutical Association held in Washington, in December, a committee was appointed to proceed with the organization details of the campaign to raise the funds necessary for construction of a building to house the American Pharmaceutical Association. Dr. H. A. B. Dunning of Baltimore, one of the leaders in the pharmaceutical field, was appointed chairman of the Campaign Committee and Dr. J. H. Beal, was chosen chairman of the Headquarters Building Fund Committee.

According to announcements by the chairmen of committees, it is planned to organize committees in every state and teams in the larger cities and districts. In this way it will be possible to reach every dealer and druggist for assistance. The proposed building is intended to provide facilities for the following: Office quarters for general executive officers and editors of the various publications; office space for executive officers of other national drug organizations who may wish to avail themselves of the privilege; an historical and research library where literature pertaining to pharmacy, past and present, may be preserved; an historical museum where the development of pharmacy may be shown; and one or more research laboratories specially equipped for study in special problems affecting the drug business and United States Pharmacopoeia and National Formulary. The city where the building will be located has not been chosen, but the location will be decided by a vote of the entire membership after consideration of the advantages of different sites.

New York branch of the American Pharmaceutical Association held its regular meeting at the College of Pharmacy Building, 115 West 68th st., on Monday evening, Feb. 11. Dr. P. M. Giesy, Director, Brooklyn Research Laboratories of E. R. Squibb & Sons, presented a paper on "Hydrogen Ion Measurements and their Use in Pharmacy."

Attempt to smuggle several hundred ounces of cocaine into the U. S., concealed in a shipment of ten barrels of sodium bicarbonate, resulted in the arrest of Joseph J. Cohen, former revenue agent, in New York last week. The cocaine came from Hamburg and reached New York Jan. 31, consigned to a fictitious name and address.

"Alkaloids, such as atropine, colchicine, eserine and hydrastine have been sharply reduced during the month owing to competition among dealers. The market is weak and still lower prices will be quoted in the near future," say Merck & Co., New York, in the February price list.

Chas. Pfizer & Co., New York, have recently issued their February price list.

#### FOUR NEW MENTHOLS TO BE OFFERED IN COMPETITION WITH JAPANESE

One German Product, Two American, and the English Synthetic Menthol Complete Quartet—American Consumers Interested but Doubtful—Japan Has Invited Competition, Says Trade

Four menthols of non-Japanese origin will shortly find their way on the American market, according to an investigation made by DRUG & CHEMICAL MARKETS following the recent offers here of synthetic menthol in a limited way from the plant of a manufacturer in England. The English product, which is an optically inactive isomer of natural menthol, said to be made from eucalyptus oil, melting at 82 degrees Fahrenheit and non-U.S.P., will be the first to be offered in competition with the Japanese, a shipment being due in about a week at New York. A German made menthol with what has been described as a rose-type odor, suitable for perfumery and toilet goods products, is expected to follow samples with commercial quantities within a few months. Two American products, both to be made from American peppermint oil in the United States, are said to complete the quartet which may or may not threaten the monopoly of the five Japanese makers and force prices permanently to low levels, that is under five dollars per pound. When compared with the Japanese position on production and stocks, the four outside products are distinctly in the embryo stage as yet. Even the English maker, who is offering in a small way at present, has not perfected his product or brought production to a point where it is a factor in the world's menthol market. This is expected to take six months at least, while the others are even further away from an active competitive position. In the meantime, production from the plants of Kobayashi, Tase, and Nagaoka, which have already resumed operations in Japan, may have a bearing on the price within a few months. In fact, several leading New York handlers are reported short of menthol from April forward.

That high prices for a number of years which have been driven upward by speculation and manipulation more than by actual shortages in Japan, have invited competition in menthol in England, Germany, and the United States, is agreed to by the biggest importer in New York. The protests of American and other consumers have been in vain. The Japanese have continued to play the market and weaken their own position. With menthol at high prices, menthol substitutes become attractive to consumers and production of menthol from American peppermint oil becomes a possibility, in spite of objections which some consumers have to both of these products, the trade believes. Two of the biggest consumers in the United States have been making their own menthol out of American oil from time to time for several years past when the price of the Japanese became too high, and may expand their operations.

Whether the recent publicity attained by synthetic menthol, the high price, or expected lower figures after March for natural menthol, are responsible for a falling off in buying during the past fortnight, cannot be determined. Consumers are apparently interested in the new product, but apparently doubtful of its merits. One menthol factor stated that he had been informed by two big users that they had tried the synthetic material and had found it unsatisfactory although neither makes a U.S.P. product. On the other hand, one firm which is selling the English product here, claims it is being used successfully in confections and proprietary medicines as a lower-priced substitute where U.S.P. menthol is not necessary. The English material is named at \$9.00 to arrive while the German is held at \$10.50 for shipment.



## The Crude Drug Market

Current Spot Quotations of Crude Drugs, page 521

### DANDELION ROOT SCARCE AND FIRM

**Now Quoted at 38c Pound—Damiana Leaves Reported Off Market—Curacao Aloes Active—Balsam Peru Firm—Celery Seed Higher—Amber Sorts Firmer—Cascara Sagrada Offered More Freely**

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced		Declined	
Arabic Gum, Am. Sorts, ½ lb.	Clover Tops, 1c lb.	Cardamom Seed, Green, 10c lb.	
Arnica Flowers, ½ lb.	Dandelion Root, 1c lb.	Elm Bark, Select, 1c lb.	
Belladonna Leaves, 1c lb.	Manna, Small Flake, 2c lb.	Ipecac Root, Rio, Powd., 10c lb.	
Celery Seed, 3c lb.	Sarsaparilla Root, Mex., 1c lb.	Senna, Half Leaf, 1c lb.	
	Vanilla Beans, Bourbon, 50c lb.	Uva Ursi Leaves, ½ c lb.	

#### Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Aconite Root, U.S.P. ....	\$ .50	\$ .50	\$ .50	\$ .40	\$ .90	\$ .12
Buchu Leaves, Short. ....	.81	.82	.90	1.02	4.00	.85
Cantharides, Russian ....	1.10	1.10	1.10	1.75	9.00	2.10
Cocculus Indicus ....	.03½	.03½	.02½	.03½	.85	.08
Ergot, Spanish ....	.35	.35	.35	.58	4.80	.54
Insect Powder, pure. ....	.65	.65	.65	.75	1.00	.28
Ipecac, Cartagena, powd. ....	2.10	2.20	2.60	2.00	4.50	1.35
Nux Vomica ....	.05	.05	.05	.07	.14½	.07
Opium, gum ....	8.00	8.00	8.00	6.75	30.00	5.00
Rhubarb Root, H. D. ....	.31	.31	.34	.42	1.75	.15
Tragacanth, No. 1, ribbon. ....	1.30	1.30	1.35	1.70	6.00	1.50
Wild Cherry Bk., thin nat. ....	.14	.14	.14	.09	.21	.07
<b>Average</b> .....	<b>1.29</b>	<b>1.30</b>	<b>1.34</b>	<b>1.29</b>	<b>5.28</b>	<b>1.00</b>

While no large sales have been reported during the past week, a considerable volume of crude botanicals have passed into consumption in lots of a hundred and two hundred pounds. Some prices are moving upward owing to a reduction in spot stocks and also as a result of generally higher quotations named for replacement. If dealers had no carrying charges, they would undoubtedly hold for the next rise in certain items which seems bound to come. As it is, they seem content to turn over their stocks as soon as possible. Although many prices have advanced rapidly from low quotations, based on high shipment costs, and dwindling of spot stocks resulting from small imports, the market is not without its weak items which some buyers are reported quietly taking on for future use.

Damiana leaves are practically off the market. Curacao aloes are firm and active with arrivals more or less limited. Balsam Peru is firm and some houses are as high as \$2.00lb., while others are naming \$1.85lb. Celery seed has been in active demand. Amber sorts have reacted upward and are now quoted at 12½c lb. Cascara sagrada is steady on spot with tendency to increase in offerings from Coast. Dandelion root is becoming more scarce with tendency to higher figures.

**Aconite Root**—Steady at 48c@50c lb. spot.

**Agar Agar**—No. 1 stocks are closely held at \$1.50@ \$1.55lb. spot with practically nothing in Nos. 2 and 3 offered on spot at the moment. Feb.-Mar. shipment named at \$1.05lb. c.i.f. New York for No. 1 goods.

**Agaric**—Holders of white are naming own price. Last sale reported at \$4.00lb. spot.

**Aletris Root**—Quoted lower at 58c@63c lb. spot with tendency to lower figures.

**Aloes**—Curacao quoted firm and active at 11c@11½c lb. spot. During past week 973 cases were imported at New York. Cape at 9c@10c lb.

**Anise Seed**—Spanish again easier at 15c@16c lb. spot with some houses naming 17c lb. inside.

**Arabic Gum**—Amber sorts have advanced and now quoted at 12½c@13c lb. spot. Imports of arabic gum during 1923 were 9,867,703 pounds, valued at \$1,239,788, compared with 8,191,736 pounds, valued at \$798,010, in 1922.

**Arnica Flowers**—Have advanced and now quoted at 12½c@13c lb. spot.

**Arrowroot**—St. Vincent quoted lower at 16c@16½c lb. spot.

**Asafoetida**—U.S.P. whole named at 20c@21c lb. spot with little doing at the moment. Imports during 1923 were 86,039 pounds, valued at \$20,012, compared with 32,423 pounds, valued at \$13,377, for the three months ended December 1922.

**Belladonna Leaves**—Have advanced again and now quoted at 28c@30c lb. spot owing to scarcity and high replacement costs. Root at 12½c@13c lb.

**Buchu Leaves**—Bales quoted lower at 81c@83c lb. spot, and less at 90c@92c lb. Stocks heavy and demand light.

**Cardamom Seed**—Green grinding lower at \$1.30@ \$1.40 lb. spot, and decorticated at \$1.75@ \$1.85lb.

**Cascara Sagrada**—Demand on spot quiet at the moment at 28c@30c lb. for new peel, and 29c@32c lb. for old bark. Reports are heard that offerings are on the increase on the Coast. Export inquiry to England active.

**Celery Seed**—Higher at 27c@27½c lb. spot.

**Chamomile Flowers**—Roman easy at 90c@95c lb. spot with possibility of shading these figures on firm orders.

**Cinchona Bark**—Red quills at 45c@50c lb. spot, and broken at 26c@28c lb. for Dutch. Ceylon at 15c@20c lb. Imports of cinchona and others during 1923 were 2,816,503 pounds, valued at \$778,983, compared with 2,503,615 pounds, valued at \$921,700, in 1922.

**Cloves**—Zanzibar named at 32c@34c lb. spot as to quantity. Market reported easier though crop is said to be short. Imports during 1923 were 7,785,678 pounds, valued at \$1,423,762, compared with 5,477,190 pounds, valued at \$1,266,947, in 1922. During past week 895 bags were imported at New York.

**Damiana Leaves**—Reported off the market.

**Dandelion Root**—Higher at 38c@40c lb. spot in limited quantities only. Last week saw 13 bags entered at New York.

**Elm Bark**—Select grade has declined and now offered at 27c@28c lb. spot owing to increase in offering from source.

**Ginger**—All grades active and firm. African at 16c@17c lb. spot, and 33c@38c lb. for Jamaica goods as to quality.

**Henbane Leaves**—Quoted firm at 37c@39c lb. spot.

**Ipecac Root**—Rio powdered quoted lower at \$2.10@ seller and quantity. Supplies none too plentiful and tendency is to higher figures. Last week saw 75 bales of flowers imported at New York. Imports during 1923 were 2,973,863 pounds, valued at \$1,397,910. Feb.-Mar. shipment at 48½c lb. c.i.f. New York.

**Ipecac Root**—Rio powdered quoted lower at \$2.10@ \$2.20lb. spot, whole at \$1.90@ \$1.95lb.



**Jalap Root**—Firm at 38c@40clb. spot.

**Japan Wax**—Scarce at 18½c@19clb. spot with shipment above these figures.

**Juniper Berries**—Named higher at 2¾c@3¼clb. spot.

**Manna**—Small flakes firmer at 39c@41clb. spot, and large at 76c@78clb.

**Saffron Flowers**—Spanish at \$30.50@\$32.00lb. spot as to seller and quantity. Competition keen between holders.

**Sarsaparilla Root**—Mexican higher at 31c@32clb. spot. Honduras named at 61c@65clb.

**Senna**—Half leaf lower at 17c@18clb. spot. Pods named at 12c@14clb.

**Tragacanth Gum**—No. 1 named at \$1.30@\$1.35lb. spot. Imports during 1923 were 1,203,218 pounds, valued at \$590,438.

**Uva Ursi Leaves**—Lower at 5½c@6clb. spot.

**Vanilla Beans**—Mexican whole quoted firm at \$10.50 @ \$12.50lb. spot, and cuts at \$7.00@\$7.50lb. Bourbon at \$7.50@\$8.00lb. Last week saw 316 cases Bourbon and 40 cases Java beans entered at New York. Imports of all grades during 1923 were 940,512 pounds, valued at \$2,630,475, compared with 1,234,542 pounds, valued at \$2,433,504, in 1922.

#### "OFFICIAL TARES" REVISION COMPLETED

Announcement of the completion of the revision of the list of "Official Tares" was made last week at the monthly meeting of the Drug and Chemical Section of the New York Board of Trade and Transportation. This list is a schedule of weight and measure allowances for all transactions and contracts for commodities of drug and chemical trades in containers such as cans, bottles, drums, and cases.

The Official Tares Committee of the New York Board of Trade and Transportation, which has just completed its work was composed of the following: Irving McKesson, McKesson and Robbins; Wm. Archibald, Archibald & Lewis Co.; Jesse L. Hopkins, J. L. Hopkins & Co.; Herman Meyer, A. Klipstein & Co.; Philip Schleussner, Roessler & Hasslacher Chemical Co.; J. H. Howe, Dodge & Olcott Co.; Guy L. Marsters, Norwich Pharmacal Co.; T. E. Caruso, Lehn & Fink, Inc.; I. V. S. Hillier, Anderson-Hillier Co.; S. B. Penick, S. B. Penick & Co.; Samuel Moneypenny, H. J. Baker & Bro., and Theo. W. Day, C. S. Littell & Co.

The Government won a decision in the plea of abatement in the Supreme Court of the District of Columbia in the suit against Everly M. Davis, president of E. M. Davis Chemical Co., New York, and Ernest C. Morse, former War Department director of sales, who asked the Court to quash the indictment which charged them and Alexander W. Phillips (deceased) of the Nashville Industrial Corporation, with conspiracy, whereby the Government received \$1,000,000 less than it should have in the sale of the Old Hickory powder plant at Jacksonville, Tenn., for \$3,500,000. The plant originally cost \$90,000,000.

William M. Taylor who has been in charge of the Paint and Naval Stores Section of the Department of Commerce, has resigned to handle the exports of paints and varnishes of E. I. du Pont de Nemours & Co., from their Philadelphia factory. Mr. Taylor has had wide experience in paints and varnishes in marine work. His position in the Department of Commerce has brought him actively in touch with problems of exporters of paints and varnishes and with the foreign development of American paint sales.

#### SEIZED GERMAN PATENTS YIELD

\$1,000,153 IN ROYALTIES TO U. S.

**Licenses to Make Arsphenamine Result in Reduction of Price From \$3.50 Per Ampule to \$1—Of 93 Licenses Issued 72 are Still in Force—One Hundred Companies Out of 400 Were Enemy-Controlled**

(Special to Drug & Chemical Markets)

Washington, Feb. 13.—Destruction of Germany's monopoly over the dye, drug and chemical industries is attributed by the Federal Trade Commission to the war-time action by which American enterprises were licensed to use the patents, trade marks and copyrights owned or controlled by Germany or its allies. The Commission makes this assertion in a report to the President covering the administration of the Trading-with-the-Enemy act.

Arsphenamine, introduced as salvarsan, the report stated, affords perhaps the most striking illustration. With the estimated consumption approximating 2,500,000 doses yearly the American supply, entirely of German manufacture and importation, was at the time the United States entered the war, practically exhausted. The small quantity in this country was being held at prohibitive prices, ranging upwards of \$3.50 per ampule, or dose.

Through the instrumentality of licenses, made possible by the war-time legislation, the United States now is producing an adequate supply of this drug, supervised and released by the Public Health Service, at prices ranging from \$1 per ampule to the public, to 13 cents, the price at which the government is supplied. What has been said of arsphenamine, the Commission advised the President, is applicable also to other essential drugs, to dyes and chemicals generally, as well as to mechanical appliances, and other industries, domestic production in all such instances being the outgrowth of war legislation. Of the 93 licenses issued by the Commission under the law, 72 are still in effect, only 21 having been cancelled or otherwise terminated, the Commission reported.

The Commission received \$1,000,153.60 in royalties, representing 5 per cent of gross sales under each license granted. This money constitutes a trust fund against which the owner of the licensed patent, trade mark or copyright had the right to sue in equity at any time within one year following the end of the war. Against this fund 125 suits now are pending. This number includes the suit instituted against the Chemical Foundation, Inc., for the return of 4,500 patents assigned to the Corporation by the Alien Property Custodian. Investigation was made by the Commission under a provision of the law of some 400 companies, more than 100 of which were found to be enemy-controlled, in a majority of cases German.

#### SUN AND OWL COMBINE COMPLETED

Los Angeles, Feb. 13.—Consolidation of Owl and Sun Drug companies involving \$5,000,000 has been completed by I. Eisner president of latter concern. Owl company will take over 35 southern California stores of the Sun Co., but leases on building of many stores will be retained by Sun Realty Co., which Eisner heads. Eisner becomes vice president of Owl Drug Co. The merger gives Owl Co 82 stores extending from southern California to Canadian border and as far east as Chicago. Annual business totals \$20,000,000.

Philadelphia Wholesale Drug Co., Philadelphia, will hold an entertainment and dance on Thursday evening, Feb. 14, at Mercantile Hall, Broad and Master streets. The company is a co-operative organization, and it is believed that most of its large retail membership in the Philadelphia district, as well as officers and employees of the company, will be represented at the entertainment.

## The Essential Oil Market

Current Spot Quotations of Essential Oils, 525, Aromatic Chemicals, 526

### OIL CLOVES AGAIN EASIER ON SPOT

Slow Demand and Keen Competition—Oil Camphor Higher—Oil Citronella Lower—Oil Eucalyptus Firm—Oil Lemon and Orange Active—African Geranium Lower—Artificial Mustard Scarce and Higher

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced		Declined	
Oil Camphor, Heavy, 1c lb.	Oil Mustard, Artif., 25c lb.	Oil Citronella, Ceylon, 5c lb.	Oil Coriander, 25c lb.
Oil Limes, Exp., 10c lb.	Oil Vetivert, Bourbon, 50c lb.	Oil Cloves, 5c lb.	Oil Geranium, Algerian, 25c lb.
	Musk Xylene, 25c lb.		Oil Sassafras, Artif., 1c lb.

#### Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Oil Bergamot .....	\$2.90	\$2.90	\$2.75	\$2.50	\$7.00	\$5.00
Oil Citronella, Ceylon.....	.80	.85	.95	.72	.92	.60
Oil Cloves .....	2.35	2.40	2.50	1.80	3.70	1.40
Oil Lemon, Italian .....	.75	.75	.72	.70	1.70	2.00
Oil Peppermint, Nat. ....	3.35	3.35	3.25	2.90	9.00	2.25
Oil Sandalwood, E. I. ....	6.75	6.75	6.75	7.25	13.00	5.25
Oil Sassafras, Artif. ....	.37	.38	.38	.42	1.00	.26
Benzaldehyde, U.S.P. ....	1.50	1.50	1.50	1.40	5.15	1.50
Coumarin .....	3.85	3.85	4.50	4.00	31.00	3.10
Methyl Salicylate, Caus. ....	.47	.47	.47	.62	1.00	.90
Vanillin .....	.54½	.54½	.50	.45	.95	.20
Average .....	2.14	2.15	2.20	2.00	6.83	2.05

Although prices are firming up in a number of items, the volume of goods passing into consumption appears to be less than last week. Primary markets are holding firm and with the depletion of spot stocks, several advances are expected in order to be in line with replacements. The higher exchange rates gave foreign holders more or less control of the situation. Demand from the flavoring extract and soft-drink trade appears to be on the increase, as some good-sized quantities of lemon and orange have moved within the last ten days. However, in spite of the strong points in the market, the attempts of buyers to beat down prices meet with some success.

Oil camphor, heavy, is named higher at 13½c pound. Oil citronella, Schimmel tested, is gradually easing off owing to increase in offerings from abroad. Oil eucalyptus is firm with tendency to scarcity, although new supplies are expected to arrive soon. Oils lemon and orange are in active demand and some large lots have passed into consumption. Artificial oil mustard is scarce and higher at \$4.00 pound for limited quantities only. Oil cloves is lower owing to keen competition among holders.

#### Essential Oils

**Oil Almond**—Market easy at \$3.25@3.75lb. spot for bitter, and \$3.50@3.75lb. for f.p.a.

**Oil Amber**—Supplies sufficient for present needs at 90c@1.00lb. spot for rectified.

**Oil Anise**—Little is doing at the moment at 41c@45c lb. spot for U.S.P. Shipment costs are about equal to values here.

**Oil Bergamot**—Coppers steady at \$2.90@3.10lb. spot with some houses inside at \$3.00lb. Imports during 1923 were 108,704 pounds, valued at \$273,799, compared with 35,682 pounds, valued at \$104,824, in 1922. During past week 25 cases were entered at New York.

**Oil Bois de Rose**—Supplies limited at \$3.25@3.50lb. spot. Little goods offered from abroad.

**Oil Camphor**—Heavy has advanced and now quoted

at 13½c@14½c lb. spot in drums. Japanese white at 13½c@15c lb. in drums. Last week 295 drums were imported at New York.

**Oil Caraway**—While some firms are holding at \$8.75 lb. spot, others name \$8.25@8.50lb. spot with tendency to scarcity.

**Oil Cardamom**—Quiet and unchanged at \$30.00@33.00lb. spot.

**Oil Cassia**—Redistilled easy at \$2.25@2.35lb. spot, and natural at \$1.65@1.75lb.

**Oil Cedar Wood**—Firm at 28c@30c lb. spot.

**Oil Citronella**—Ceylon quoted lower at 80c@85c lb. spot for Schimmel tested oil in drums, and 82c@87c lb. in tins. April shipment sold at 57½c lb., although the market appears to be firming up for forward deliveries with 60c lb. inside for this position. Last week saw 11 drums entered at New York. Imports of citronella and lemon grass during 1923 were 1,017,068 pounds, valued at \$651,592, compared with 315,361 pounds, valued at \$146,407, in 1922. Java firm at \$1.05@1.10lb. in drums, and tins at \$1.10@1.15lb.

**Oil Cloves**—Has declined again and now quoted at \$2.35@2.40lb. spot in cans, and \$2.45@2.55lb. in bottles. Resale quarters offering keen competition, as well as holders of cheap contract material.

**Oil Coriander**—Quoted lower at \$14.75@15.00lb. spot due to increase in offerings from abroad.

**Oil Eucalyptus**—Firm and scarce at 75c lb. spot in drums, and 75c@85c lb. in cases. The situation is expected to be relieved in a few days as some large arrivals are about due.

**Oil Geranium**—Algerian lower at \$7.25@7.75lb. spot, and Bourbon at \$6.75@7.00lb.

**Oil Lavender**—French U.S.P. quoted in active demand at \$4.50@6.00lb. spot with shipment named at 20c per ester. During past week 48 cases were imported at New York. Imports last year of lavender were 243,258 pounds, valued at \$448,828, compared with 79,298 pounds, valued at \$128,833, in 1922. Spike firm at 90c@1.00lb. spot with replacement about equal to \$1.25 lb. c.i.f. New York.

**Oil Lemon**—Italian firm at 75c@90c lb. spot with some houses inside at 80c lb. Imports during 1923 were 416,232 pounds, valued at \$258,102, compared with 689,520 pounds, valued at \$466,034, in 1922. American at 70c@75c lb.

**Oil Limes**—Expressed higher at \$1.70@1.80lb. spot.

**Oil Mustard**—Artificial higher at \$4.00@4.25lb. spot owing to scarcity.

**Oil Orange**—Italian firm at \$3.00@3.25lb. spot as to seller and quantity. Imports during 1923 were 221,702 pounds, valued at \$443,863, compared with 48,399 pounds, valued at \$92,273, in 1922. American at \$2.80@2.85lb.

**Oil Peppermint**—Steady at \$3.35@3.45lb. spot for natural, and \$3.60@3.70lb. for redistilled.

**Oil Sassafras**—Artificial lower at 37c@38c lb. spot.

**Oil Vetivert**—Bourbon up on scarcity at \$8.50@9.00 lb. spot.

**Oil Wormseed**—Quoted easy at \$6.75@7.00lb. spot with some houses naming \$6.50lb. on quantity orders.

**Aromatic Chemicals**

**Benzaldehyde**—Makers report steady demand at \$1.50 @ \$1.60lb. spot U.S.P., and \$1.60 @ \$1.75lb. for FFC goods.

**Coumarin**—Named at \$3.85 @ \$4.00lb. spot as to quantity. All producers appear to be in line at the lower prices.

**Musk Ketone**—Higher at \$4.25 @ \$4.50lb. spot.

**Terpineol**—Quoted firm at 50c @ 51c lb. spot in drums, and 54c @ 55c lb. in cans. Demand active. Imported named at \$1.20 @ \$1.30lb.

**Tolu Balsam**—While \$2.00 @ \$2.25lb. is openly named, some seem to think that better can be done on firm order.

**Vanillin**—Quoted at 54½c @ 56c oz. as to quantity.

**The Tin Market**

**Tin**—Market has advanced sharply over last week. Straits named at 53c lb. spot, standard at 52½c lb., and 99 per cent at 52c lb.

The Ceylon citronella market continues to decline for Schimmel tested oil with sales having been made at 62½c, 60c, and 57½c per pound for February, March, and April shipments, according to George Uhe, who says: "Spot goods are available at 80c a pound with possibility of shading these figures on firm business. Java oil is firm and no forward business being transacted at the moment owing to the Chinese holidays."

The attar of rose industry in Turkey has become almost extinct, according to reports from the U. S. Consul General at Constantinople. In 1919, American purchases of rose oil in Turkey amounted to \$149,630 and in 1922, the total shrunk to \$185. A revival in the industry is possible if Turkish dealers will stop adulterating the oil.

Dr. M. Mueller, president of Rhodia Chemical Co., New York, aromatic chemicals, recently sailed on the *Majestic* for a two-months trip to France. While abroad he will obtain first hand information on the chemical industries in France and Germany.

The Chicago Perfumery, Soap and Extract Association held a meeting on Feb. 6, at which, Dr. E. Friedman, of Rhodia Chemical Co., spoke on "Synthetics and their Chemistry." Various committees for the year were announced.

Roure-Bertrand Fils, essential oils, will move to larger quarters at 461 Fourth ave., New York. Telephone will be Madison Square 2120. Justin Dupont, synthetic aromatics, will also be located at the same address.

The plant of Lovejoy-Selbro Chemical Corp., 228-32 Adams st., New York, manufacturers of toilet waters and toilet powders, which was damaged by fire recently, was insured for \$15,250.

Vivaudou, Inc., announces that R. J. Goerke, president of Goerke & Co., operating department stores in Newark and Elizabeth, N. J., and of Gilmer's, Inc., has been elected a director.

Rossville Co., alcohol producers, has had a verdict of \$5,643 entered against it for commissions due on contracts made by A. P. Henry, Buffalo, N. Y., a former sales representative.

Jules Ferond Co., Inc., manufacturers of hair tonics, has become bankrupt with claims of \$3,967, of which \$3,400 is a personal claim of Jules Ferond.

**ESSENTIAL OILS HIGHER IN JANUARY**

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Milan, Feb. 2.—Oils sweet orange, bitter orange, and bergamot advanced during January. Prices at the end of December and for two weeks in January follow:

	Dec. 31	Jan. 7	Jan. 14
	Lire	Lire	Lire
Sweet orange .....	130-132	130-132	130-132
Bitter orange .....	108-115	110-120	117-121
Bergamot oil .....	132-137	135-150	137-148
Lemon juice .....	31- 33	31- 33	31- 34
Mandarine .....	282-350	280-350	280-350

Quotations for other essential oils per kilo are: Angelica root, lire 1,000; angelica seeds, lire 1,310; anis, lire 50; arnica flowers, lire 3,000; Bay S. Thomas, lire 350; Roman chamomiles, lire 2,500; Ceylon cinnamon, lire 380; Ceylon citronella, lire 48; Burma citronella, lire 65; Ceylon cloves, lire 355; African geranium, lire 380; sandalwood, lire 400; lemongrass, lire 60; pressed Calabrian lime juice, lire 70; Piedmontese peppermint, lire 180; Italian rose, lire 3,800; French rosemary, lire 25; Italian rosemary, lire 24; mustard seed, lire 250; ylang ylang, lire 800.

Prices for natural essences are: Clove flowers, lire 4,800; jessamine, lire 9,500 to 19,500; mimosa, lire 500 to 750; oak musk, lire 900 to 1,400; daffodil, lire 3,500 to 10,500; May rose, lire 3,000 to 4,800; tuberose, lire 5,500 to 15,000; Parma violet, lire 40,000; Victoria violet, lire 16,000; absolute iris, lire 4,900.

**ACTIVE DEMAND FOR LEMON JUICE**

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Catania, Sicily, Feb. 2.—Orders for sweet orange are numerous, but little business is reported in bitter orange, bergamot, and mandarine. The first lots of lemon juice of the new harvest have made their appearance on the market, and the demand is fairly active. The higher value of the Italian lira makes business with the United States and England difficult, whereas the decline in the value of the franc has stopped all importations from France. The following table shows the prices per Sicilian pound:

	Dec. 24	Jan. 15
	7.10- 7.25	7.00- 7.30
Lemon juice .....	29 -31	29 -30
Sweet orange .....	27 -29.50	27 -30
Bitter orange .....	78 -82	78 -81
Mandarine .....	35 -38	36 -38
Bergamot oil .....		

Sweet orange was in fair demand, but buyers held out for lower prices and business was limited. Bitter orange improved slightly. Bergamot oil is being held for better prices.

The citronella oil market in the Netherlands East Indies during 1922 was active owing to an increased demand from soap manufacturers and a shortage in the Ceylon crop. Exports in 1922 amounted to 435 metric tons against 273 tons in 1921.

Chicago Perfumery, Soap and Extract Association will hold its monthly meeting and luncheon on Wednesday, Feb. 20, at the Elks Club. Special entertainment will be provided by Eugene De Rubin, a mental telepathy expert.

Stein, Hall & Co., New York, will move its Boston office and warehouse to 10 High st., on March 1. The former location of the office was 141 Milk st.

Exports of palm oil from Sumatra in the Dutch East Indies during 1922 amounted to 2,544 metric tons and in 1921, 2,358 tons.



## The Foreign Markets

Imports of Drugs and Chemicals, page 529

### BENZOL, IPECAC AND SANTONIN HIGHER

London Market Firmer for Codliver Oil, Citric Acid and Sal Soda—Prices Easier for Salicylic Acid, Menthol, Chinese Cantharides, Carbolic Acid and Mercurials

(Special Cable to DRUG & CHEMICAL MARKETS)

London, Feb. 13.—Trading in crude drugs and medicinal chemicals is quiet this week. Higher prices are announced on benzol, ipecac (Matto Grosso), sugar, honey and santonin.

The market is firmer for codliver oil, citric acid and sal soda.

Prices are easier for salicylic acid, menthol, Chinese cantharides, carbolic acid and mercurials.

Administration of the mercury mines of Almaden and Arrayanes will be entrusted to a body consisting of the president, appointed by the Government; two mining engineers with the rank of inspecting general or chief, appointed by the Minister of Commerce to represent the latter; one from the department of the Ministry of Commerce; one medical practitioner delegated by the General Direction of Health; one miner elected by the workmen's organizations of the mines; and one State Advocate, acting as secretary, according to a Royal Decree, which has been issued at the instance of the Military Directorate. The new council will be called upon to submit to the Minister of Commerce within two months, a draft of a new set of statutes and regulations to replace those at present in force.

French manufacturers of heavy chemicals look forward to a brisk season, says Assistant Trade Commissioner D. S. Green, Paris. Orders are coming in in considerable volume, chiefly for sulfuric acid. The demand for sulfuric acid has arisen among insecticide manufacturers. The demand for nitric acid has fallen off slightly. A reduction in price is hardly possible because of the necessity for purchasing nitrate of soda from London. Alkalis remain firm.

The Hudiksvall Alkali Works has been bought by a syndicate which will start production this month of about 4,000 tons of alkalis and 5,000 bleaching powder, the present capacity of the plant, according to a report from Stockholm. New machinery will be installed in buildings already erected, which is expected to double this output. These production figures exceed the home needs of Sweden.

The French Government has recently presented a bill to the Chamber of Deputies fixing inland excise duty on glucose at 15 francs per 100 kilogrammes. The basic import duty will be altered to 114 francs in the general tariff, and 57 francs in the minimum.

A factory for the manufacture of wooden safety matches has been installed in Argentina by American interests. It is the first factory of its kind in the country and will produce approximately 70,000 boxes per day.

Elektro-Chemische Werke, Walschut, Ruhr, has closed down owing to inability to pay wages in francs.

### FOREIGN EXCHANGE

	Par	Current
Great Britain (pound sterling) .....	\$4.866	\$4.299
France (franc) .....	.193	.045
Italy (lira) .....	.193	.043
Germany (mark) per hundred .....	23.80	
Czechoslovakia (crown) per hundred .....	20.30	2.91
Poland (marks) per hundred .....	23.80	.00001
Japan (yen) .....	.499	.458
Holland (guilder) .....	.402	.374
Spain (peseta) .....	.193	.127
Belgium (franc) .....	.193	.040
Switzerland (franc) .....	.193	.174
Sweden (crown) .....	.268	.262
Denmark (crown) .....	.268	.162
Argentina (peso) .....	.424	.335
Brazil (milreis) .....	.324	.121
China (Silver dollar—Hongkong) .....	.789	.510
(Tael—Shanghai, silver) .....	1.082	.720
(Tael—Peking, silver) .....	1.156	.752

### PRICES OF SULFUR IN SICILY

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Catania, Sicily, Feb. 2.—Quotations on sulfur per 100 kilos are: Refined sulfur in blocks, lire 54.50; sublimed sulfur, lire 71.50; raw ground sulfur, lire 55.50; refined ground sulfur, lire 63.50; ventilated sulfur, lire 74.50. All prices are for goods on board ship, or in the station at Catania, with sacks calculated as sulfur.

New plantings of tapioca in Java during November were 164,000 acres, compared with 240,000 acres for the same month in 1922, according to the Statistical Bureau, Buitenzorg. The report states that the harvest during the eleven months of 1923 was only slightly larger than the preceding year, but the planted area for the same period was 845,000 acres, compared with 1,030,000 acres for the eleven months in 1922.

An overproduction of coca in the Netherlands East Indies is probable, according to reports from Consul Charles L. Hoover at Batavia. In 1922 the exports of coca leaves increased to 1,284 tons, from the 1,137 tons in 1921, but due to strict regulations governing the sale of cocaine in all civilized countries, it is believed an overproduction will result.

A new Dye Color Index, which has taken three years to complete, has recently been issued by the Society of Dyers and Colorists of Bradford, England. This new British work covers 1,236 synthetic dyes and 87 natural dyes and will probably replace the German "Farbstofftabellen" as the standard authority.

New import valuations on pharmaceutical, laboratory, surgical and dental instruments and supplies in Uruguay, were established for a period of at least three years by a decree of Dec. 17, according to reports from Consul Thomas H. Bevan at Montevideo.

The Spanish government proposes to appropriate 100,000,000 pesetas for agricultural development, part of this money to be used for the purchase of fertilizers, and other farming material.

Only 87 British cotton spinning companies out of 287 declared dividends during 1923, and the average dividend was only 2.2 per cent compared with 3.73 per cent in 1922.

## (Continued from Page 483)

(Continued from Page 483)

Schultz No.	Dye & Maker	Quantity Pounds
837	Algol yellow R	661
	Algol yellow R paste—nc—By	
819	Algol red FF, R, (single strength) ..	440
	Algol red R extra pdr.—By	
820	Algol brilliant violet R (single strength)	4,708
	Duranthrene brilliant violet R—nc—	
	Vat brilliant violet BN paste—By	
	Vat brilliant violet RK pdr.—By	
827	Indanthrene claret B extra	5,000
	Aurora claret BN paste—B	
831	Indanthrene red BN (single stgh.)	4,438
	Duranthrene red BN paste—BD	
	Helindone red IBN ex. pdr.—M	
	Helindone red DIBN paste—M	
	Indanthrene red BN ex. pdr.—B	
	Vat red BN ex. paste—B	
	Vat red RK paste—B	
	Vat red RKP—B	
862	Indanthrene violet RN (single stgh.)	3,203
	Indanthrene violet BN paste—B	
	Indanthrene violet BN ex. pdr.—B	
	Helindone violet IBN paste—M	
	Helindone violet IBN ex. paste—M	
833	Algol olive R (single strength)	1,760
	Algol olive R pdr.—By	
838	Indanthrene blue RS (single stgh.)	15,090
	Indanthrene blue RS triple pdr.—B	
	Vat blue RSP dbl. paste—B	
840	Indanthrene blue 3G (single stgh.)	10
	Vat blue 3G pdr.—B	
841	Indanthrene blue GG (single stgh.)	35
	Vat blue GGSL pdr.—B	
842	Indanthrene blue GCD (single stgh.)	2,092
	Indanthrene blue GCD dbl. paste—c—B	
844	Algol blue 3G (single strength)	80
	Algol blue 5G pdr.—By	
849	Indanthrene yellow (single strength)	440
	Indanthrene yellow G pdr.—B	
851	Alizarin direct blue B	80
	Alizarin direct blue B—Q	
852	Alizarin irisol D, R	463
	Alizarin blue JR pdr.—nc—By	
	Alizarin R—nc—By	
	Alizarin irisol R pdr.—By	
864	Alizarin viridin	1,257
	Alizarin viridin FF paste—nc—By	
856	Alizarin direct blue B	1,633
	Alizarin sky blue B—By	
856	Alizarin astrol	1,772
	Alizarin blue AS pdr.—nc—By	
858	Alizarin Saphirol B	797
	Alizarin saphirol SE—c—By	
860	Cyananthrol G	1,410
	Cyananthrol BGAOO—B	
	Alizarin direct blue BGAOO—nc—B	
861	Anthrquinone blue SR	3
	Anthrquinone blue SR extra—B	
862	Alizarin blue black	2,302
	Alizarin blue black B pdr.—c—By	
865	Alizarin direct green G	807
	Alizarin cyanine green G	
	—By	
867	Indanthrene brown (single strength)	1,462
	Antra brown B dbl. paste—B	
869	Algol brown B (single strength)	5,907
	Vat brown R paste—B	
874	Indigo, synthetic (single strength)	9
	Indigo vat—B	
883	Indigo KG (single strength)	500
	Indigo MLBB pdr.—M	
906	Thioindigo scarlet G	551
	Ciba red G paste—I	
907	Ciba scarlet (single strength)	2,011
	Ciba scarlet G extra paste—I	
	Thioindigo scarlet GG paste—K	
908	Ciba red R	1,323
	Ciba red B paste—I	
911	Helindone pink	998
	Helindone pink AN paste—M	
	Helindone pink BN paste—M	
912	Thioindigo red B (single strength)	2,753
	Ciba pink BG paste—I	
	Ciba pink BG pdr.—nc—I	
915	Helindone fast scarlet R (single strength)	5,000
	Helindone fast scarlet R pdr.—M	
918	Helindone red 3B	5,335
	Helindone red 3B paste—M	
	Helindone red 3B pdr.—B	
	Vat red violet RH paste—B	
919	Ciba bordeaux B (single strength)	9,792
	Ciba bordeaux B paste—I	
	Ciba bordeaux B wlr—I	
920	Helindone violet (single strength)	500
	Helindone violet E pdr.—M	

	Quantity Pounds
923 Ursol .....	315
Fur brown, O, P-A .....	
Fur gray brown SLA-A .....	
Fur blue black SDF-A .....	

### UNIDENTIFIED DYES

### Acid Dyes

Alizarin eneraldole G-nc-By .....	210
Alizarin rubinol .....	1,233
Alizarin rubinol 3 G-By .....	
Alizarin rubinol 5 G-By .....	
Alizarin rubinol G W-By .....	
Alizarin rubinol R-nc-By .....	
Brilliant mulling blue B-C .....	200
Brilliant purple R-By .....	2
Brilliant red B-By .....	2
Cloth fast yellow G-I .....	226
Guinea fast red 2 R-A .....	200
New Bordeaux RX-B .....	50
Orange N, NC-By .....	4
Polar red G cone-G .....	882
Supramine blue R-nc-By .....	220
Supramine yellow R-nc-B .....	110

## Vat Dyes

Algol brown*G (single strength)—By....	880
Helindone brown I R paste—M.....	500
Helindone pink R extra paste—C—M....	11,300
Hydron pink F F (Single strength)—C..	5,660
Hydron scarlet 2 B paste—nc—C.....	1,820
Hydron scarlet 3 B paste—nc—C.....	1,820
Indanthrene brown BCD paste—B.....	830
Indanthrene blue BCD paste—B.....	800
Indanthrene golden orange 3 R paste—B	153
Indanthrene pink B ex. paste—C—B.....	1,844
Vat (Indanthrene) grey BTR paste—B..	1,100
Vat (Indanthrene) grey RRR paste—B..	1,100
Vat (Indanthrene) red violet RRR paste —nc—B.....	2,804

### Mordant and Chrome Dyes

Anthracene chromate brown E B—C—C.	1,119
Brilliant chrome blue 2 B—DH.	110
Chromosamine blue BN—DH	441
Chromosamine BN—C—DH	441
Chromoxane brilliant blue G—By.	1,162
Eriochrome flavine A conc—C—G.	5162
Metachrome brown 6 G—A.	300
Metachrome olive 2 G—A.	500
Metachrome violet B—A.	200
Palatine chrome black CSB—B.	3
Palatine chrome blue 2B—B.	3
Solochrome brown MO paste—BD.	30

## Direct Dyes

Benzo fast black L-By	328
Benzo fast bordeaux 6 BL-nc-By	152
Benzo fast brown 5 R-By	182
Benzo fast eosine B L-By	2
Benzo fast heliotrope	432
Benzo fast heliotrope BL-nc-By	
Benzo fast heliotrope 4 BL-nc-By	
Benzo fast heliotrope 5 R H-nc-By	
Benzo fast orange 2 R L-By	201
Benzo fast yellow G L-By	2
Benzo light gray B L-nc-By	551
Brilliant fast blue 2 G-nc-By	390
Brilliant sky blue 8 G extra-Q	146
Chlorantine fast blue 2 G-nc-L	4,409
Chlorantine fast blue 2 G-nc-L, GL, RL-L	8,488
Columbia fast leather brown BX, GX, RX, 3R-A	20
Diamine catechine GR dbl. str.-I	1,323
Diamine fast bordeaux 6BS-nc-C	165
Diamine fast orange E G-nc-C	500
Diamine fast orange E, R-nc-C	493
Diamine orange F-C	50
Diamine steel blue L-C	50
Diazanil blue 2 R-M	3,984
Diazo brilliant green 3G-By	300
Diazo brilliant orange 5 G extra-By	3
Diazo brown 3 G-By	2
Diazo fast black S D-By	50
Diazo fast green B L-By	2
Diazo fast scarlet BL-By	2
Diazo fast violet BL-By	2
Diazo fast yellow G, 2 G-By	2
Diazo rubine B-By	2
Diazo sky blue 3 G, 3GL-By	222
Diazophenyl black V-C-G	4,409
Direct fast black B-I	4,409
Fast cotton orange 2 R L-A	100
Fast cotton rose 2 A	97
Fast cotton blue 5 R-By	2
Heliotrope 3 B-By	10
Naphthogene blue 2 B-nc-B	752
Polyphenyl blue GC-C-G	661
Tolylene fast brown 3 G-By	220

## Sulfur Dyes

Cross dye green B—nc—BD.....	3,520
Pyrogene brown G—I .....	2,204
Thionol brown O—nc—BD .....	4,480

Basic Dyes	Quantity Pounds
Brilliant acridine orange 5R-DH .....	220
Brilliant rhoduline blue R-By .....	2
Rhodamine blue GG extra-By .....	2
Rhodamine blue 3GO-nc-By .....	55
Rhodamine red G-By .....	2
Rhodamine sky blue 3G-By .....	2
Rhoduline sky blue BB-By .....	2

### Spirit Soluble or Color Lake Dyes

Azonine R—C .....	10
Japan black extra—B .....	500
Typophor red FG—B .....	7

### Unclassified Dyes

Unclassified Dyes	
Green PFL-By	2
Vulcan beta red-B	2
Vulcan blue extra-B	2
Vulcan blue GGS-B	2
Vulcan bordeaux BL-B	2
Vulcan green B-B	2
Vulcan orange G-B	2
Vulcan red B-B	2
Vulcan red B N-B	2
Vulcan red B N-B	2
Vulcan red B N-B	2
Vulcan red D K-B	2
Vulcan red F. G-B	2
Vulcan rubine B K-B	2
Vulcan scarlet B-B	2
Vulcan scarlet RN-B	2
Vulcan violet A-B	2
Vulcan violet BN-B	2
Vulcan violet RR-B	2
Vulcan yellow FR-B	2
Vulcan yellow G N-B	2
All other aniline dyes-Q	13

## Synthetic Aromatic Chemicals of Coal-Tar Origin

Name of chemical, Maker and Country		
Acetophenone—c—Holland	15	
Amyl salicylate—c—Germany	110	
Benzaldehyde—Holland	100	
Benzyl acetate—c—France	100	
Benzyl benzoate—c—Switzerland	514	
Benzyl propionate—c—Switzerland	20	
Cinnamic aldehyde—c—Switzerland	990	
Diethyl phthalate—c—Switzerland	22	
Heliotropine—c—Germany	110	
Heliotropine crystals—c—Switzerland	12	
Indol pure—nc—Holland	1	
Jacinthe—c—France	25	
Mellitol—France	3	
Musk land	565	
Musk ketone—c—Belgium, Switzerland, Holland	221	
Musk Xylol—nc—Holland	50	
Neroline (b-naphthol ethyl ether)—c Switzerland, Germany	155	
Phenyl acetic aldehyde	72	
Phenylethyl acetate—c—France	25	
Phenylethyl alcohol—c—Switzerland	30	
Yara Yara (b-naphthol methyl ether)—c France	30	

**Medicinals, Photographic Developers, Inter-  
mediates and Other Coal-Tar Chemicals**

Amipropyrone—nc—Belgium, Germany, England.....	4,425
Antipyrin—France.....	1,634
Aspirin, granulated—no—France.....	1,291
Beta naphthol monosulphonic acid FA—Germany.....	20
Caffeine sodium benzoate—c—England.....	40 oz.
Caffeine sodium salicylate—nc—England.....	20
Chlorxylenol—Germany.....	882
Enesol (mercury salicylarcsenite)—nc—France.....	63
Epinine—c—England.....	140 cc.
Decroline soluble conc—Germany.....	35
Fast black LB base—nc—Germany.....	35
Guaiaol carbonate—nc—England, Germany.....	1,406
Guaiaol cacylate—nc—France.....	2
Guaiaol crystals—no—Germany, Switzerland.....	769
Glycin—nc—Germany.....	213
Homatropine hydrobromide—England.....	2.5 oz.
Homatropine hydrochloride—no—England.....	1 oz.
Kresidin—Switzerland.....	1,102
Naphthalene—c—England.....	135,178
Naphthol AS—SW—nc—Germany.....	85
2-Naphthol-7-Sulphonic acid—Germany.....	500
Nitromethylbenzimidazol—Switzerland.....	439
Novadel (sodium bleaching comp.)—nc—Holland.....	51,818
Parachlorometacresol—Germany.....	2,205
Sodium salicylate—c—England.....	72
All other medicinals—France.....	76

# DYES IMPORTED IN 1923 FOR TEXTILE AND OTHER COLOR-USING INDUSTRIES

## Comparisons Made With Imports in 1921, 1922 and 1914, Showing Progress in Manufacturing Dyes in the United States—Allotments of Reparation Dyes

A review of dyes imported in 1923 has been prepared together with corresponding imports for the years 1922, 1921 and the pre-war year 1914. The imports for the fiscal year 1914 are taken from Department of Commerce Special Agent Series 121. The import figures for the years 1921 and 1922 are taken from the Annual Census of Dyes and Other Synthetic Organic Chemicals issued by the U. S. Tariff Commission. This list points out the leading dyes, of foreign origin used by the domestic textile and dye consuming industries. Of the 66 dyes totaling 1,617,052 pounds, seven were imported in excess of 50,000 pounds each and twenty-seven in excess of 20,000 pounds. The total imports for the fourteen leading dyes exceeded 700,000 pounds. Twenty-two of the sixty-six dyes were of Swiss manufacture and 31 per cent of the quantity came from that country, while practically the entire remainder were manufactured in Germany.


The vat dyes lead in the quantity of imports. Indanthrene golden orange G and R, totaling 123,140 pounds, and the two vat pinks (Hydron and Helindone) 91,067 pounds while the figures for Indanthrene yellow were 83,208 pounds. Among the acid dyes the Patent blues and Xylene light yellow totaled 120,059 pounds. Of the Mordant and Chrome colors, Alizarin blue black leads with an import of 56,332 pounds followed by Alizarin, synthetic with 35,168 pounds, less than one-fifth of the pre-war imports. In the group of Direct colors, Diaminogene blue and the two Trisulphon browns

accounted for over 100,000 pounds. Of the Basic dyes, Phosphine and Rhodamine 6G and B accounted for nearly 95,000 pounds.

Only two of the dyes, Schultz 220 Buffalo black PY and Schultz 392 Buffalo direct orange were produced in the United States in 1914 whereas at present about 30 of this list are now being manufactured. Many of these dyes are not produced at all in this country while others are made but not in quantities sufficient to meet our domestic requirements. A further examination of the import figures for the years prior to 1923 reveals the recent increased consumption of faster dyes and the demand for certain new types which possess special advantages, such as economy of application, or fastness. The reduced import in recent years compared with those of 1914, is in most cases due to the increased domestic production. An increased import in recent years compared with the pre-war imports points out in many cases a trend of greater consumption even over and above the domestic production.

In a study of the import data for a particular dye it is highly important to consider the relationships with other similar colors. This is illustrated in the case of Indanthrene blue GCD, the most important vat dye other than indigo. Here we have a pre-war import in 1914 of 478,985 pounds and an import of 66,537 pounds in 1923. The reduced import of 201,835 pounds in 1921 is due in part to the increased domestic production. In 1922, however, the imports receded to 16,802 pounds. This is due not alone to a 200 per cent increase in the domestic production for that year, but also to the importation of 239,085 pounds of Indanthrene blue BCS. The latter is similar to Indanthrene blue GCD, possessing, however, greater fastnesses to chlorine and was sub-

(Continued on Page 532)



## DYELENE COLORS

### Standards of Uniformity and Quality

Chrome Red  
Ponceau 3 RB  
Azo Yellow  
Cloth Red B & G  
Azo Acid Violet  
Chromate Brown EBN

Chrysoidine R  
Bismark Brown R  
Metanil Yellow  
Naphthol Green B  
Toluyene Orange R  
Fast Acid Yellow G


## DYE PRODUCTS & CHEMICAL CO.

Incorporated


Works at  
NEWARK, N. J.

200 Fifth Ave.  
NEW YORK CITY

## Rohm & Haas Co., Inc.



40 N. Front St.  
PHILADELPHIA, PA.



## Hydrosulphites and Sulphoxylates

for the  
Textile Industry

**LYKOPON**—A concentrated SODIUM HYDROSULPHITE, for indigo and vat dyeing.

**FORMOPON**—For discharge printing and stripping.

**FORMOPON EXTRA**—For stripping woolen goods and shoddy.

**PROTOLIN**—For stripping woolen goods.

**ALUMINUM CHLORIDE** — Crystals and liquid, for carbonizing woolen stock.



## Chemicals for Consuming Industries

Heavy Chemicals, pages 504-506; Fine Chemicals 500-502; Fatty Oils, 519

### CHEMICAL PRICES UNCHANGED BUT FIRM

**Steady Buying of Small Lots Makes Fair Total of Business—Sal Ammoniac Scarce—Acetone Lower—Tin Salts Strong—Copper Sulfate in Demand—Starches Firm**

Chemical prices have shown little change during the past week although a firm undertone generally has been noted. Steady buying of small lots from spot stocks of most of the chemical list has built up a fair volume of business. Except for contracted materials, however, consumers will not expand purchases beyond limited quantities, apparently not having a great deal of confidence in chemical prices even at current low levels. Stocks of some products are reported to have gradually contracted to a point where prices are likely to be affected. Two outstanding cases are those of white imported sal ammoniac and olive oil. Starches and dextrines hold very firm and if corn continues to rise, further advances in these products may be looked for. Tin salts are strong with a rising tendency on the price of metal. Acetone has been reduced by producers. Demand for copper sulfate from agricultural districts is expanding. Present prices for vitriol are below pre-war, and the trade believes that any sustained buying will send the price up even in the face of the soft metal market.

### Leather Chemicals

#### Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Acid, Acetic, 28% .....	\$3.38	\$3.38	\$3.38	\$3.17	\$17.00	\$1.50
Acid, Formic, 90% .....	.14	.14	.14	.16	1.50	.07
Acid, Lactic, 22% dark....	.04 1/2	.04 1/2	.04 1/2	.04 1/2	.07	.02
Potassium Bichromate .....	.09 1/2	.09 1/2	.09 1/2	.10	.65	.06 1/2
Epsom Salt, tech. ....	1.80	1.80	1.80	1.83	3.75	1.00
Sodium Prussiate, Imp. ....	.11 1/2	.11 1/2	.11 1/2	.19	1.25	.18
Soda Ash, 58% wks. ....	1.38	1.38	1.38	1.45	4.10	.69
Sodium Bichromate .....	.07 1/4	.07 1/4	.07 1/4	.07 1/4	.45	.04 1/2
Sodium Hyposulfite .....	2.75	2.75	2.75	3.00	3.75	1.50
Sodium Sulfide, 60% wks. ....	.03 1/4	.03 1/4	.03 1/4	.04 1/2	.10 1/2	.02 1/2
Average .....	.981	.981	.981	1.009	3.267	.528

Heavy imports of tanning extracts at New York during the past week have tended to soften the market slightly and some sellers are reported conceding fractionally better prices to big buyers. The shipments were heaviest in logwood, quebracho, divi divi, man-grove, and myrobalan extracts. Offerings of neatsfoot oil at easier prices are reported from some quarters. Most sellers of sodium sulfide are quoting unchanged and apparently firm, although one factor continues to undersell the local markets. Bichromates are firm and in steady demand. Imported Epsom salt maintains its higher prices on limited recent arrivals. White sal ammoniac is firm on scarcity of cheap imported goods. Plenty of domestic available. Although most tanneries are interested chiefly in small lots at this time, chemicals passing into the leather trade seem to be increasing in volume.

**Acid, Acetic**—Steady at former prices with demand somewhat routine. Calcium acetate appears firm and no changes are anticipated in prices. Makers quote 28 per cent at \$3.38@3.63; 56 per cent, \$6.75@7.00; 70 per cent, \$8.38@8.63; glacial, \$12.78@13.53.

**Acid, Formic**—Importers report an active demand and with supplies in small volume and prices firm at 13 1/2¢ @14¢lb. for 90 per cent grade.

**Acid, Lactic**—Demand has been mainly for small quantities but the volume has been gaining. Prices are steady with makers quoting 4 1/2¢@5¢lb. for 22 per cent dark and 5 1/2¢@6¢lb. for light; 44 per cent, dark, 9 1/2¢@10¢lb. and light, 11 1/2¢@12¢lb.; 66 per cent, dark, 14 1/2¢@15¢lb. and light, 25¢@30¢lb.

**Arsenic**—Routine demand for red sulfide at 15¢@15 1/2¢lb.

**Alums**—Ammonium lump is steady at \$3.50@3.65 for the lump and \$3.65@3.75 for powdered. Potash alums named at 4¢@4 1/4¢lb. for domestic and \$2.90@3.00 for imported. Chrome alum, 5 1/2¢@6¢lb.

**Ammonium Chloride**—Imported white firmer at 6 1/2¢ @6 3/4¢lb. on spot due to scarcity. Domestic at 7 1/4¢@8¢lb.

**Epsom Salt**—Imported technical is firm at the higher levels at \$1.15@1.20 and domestic at \$1.80@2.00. U. S. P. material at \$2.19@2.50 for domestic and \$2.00@2.25 for imported.

**Extracts**—Buying has declined to routine demand for quantities for immediate delivery. Imports of tanning extracts and material have been increasing recently. Prices show little change though shading is possible here and there. Archil offered at 14¢@17¢lb.; chestnut, 1 1/4¢@2¢lb.; Borneo cutch, 4 1/4¢@5 1/2¢lb. Rangoon, 13¢ @16¢lb.; gambier, 8 1/2¢@9 1/2¢lb.; hematine, paste, 11¢@12¢lb.; crystals, 14¢@20¢lb.; hemlock, 3¢@3 1/2¢lb.; logwood, 10¢lb. and lower grades, 7¢@9¢lb.; solid, 9¢@13¢lb.; myrobalans, 4¢@4 1/4¢lb.; quebracho, 3¢@3 1/2¢lb.; solid, 4 1/2¢@4 3/4¢lb.; sumac, 8¢@10¢lb.

**Formaldehyde**—Makers are holding firm at 11¢@11 1/4¢ lb. Demand has been showing a steady improvement during the last few weeks.

**Oils**—Over supplies of animal oils have caused easier prices. Vegetable oils are a trifle easier though linseed and olive oils are strong. Linseed oil is higher at 94¢ gal. Castor oil is steady. Neatsfoot oil is lower at 10 1/4¢lb. for extra; red oil is stronger; degreas is steady at 4 1/4¢lb. for American and 50¢ gallon for Moellon. Tallow is steady at 8¢lb.

**Potassium Bichromate**—While demand has shown no further increases, prices remain firm at former levels. Makers quote 9 1/2¢@10¢lb. according to quantity.

**Potassium Prussiate**—Demand has been improving but prices continue to be shaded. Imported and domestic yellow offered at 19 1/2¢lb. Red at 45¢@48¢lb.

**Soda Ash**—Contract deliveries are reported steady while new business is more or less routine at present. Contract business is named at \$1.38 for 58 per cent light in carlots of bags at works; barrels at \$1.63 and bulk, \$1.25. Spot business in less than carlots at \$2.04 @2.19 in bags and \$2.29@2.44 in barrels.

**Soda, Caustic**—Little change in the situation with new business moderate and deliveries in contracts in steady volume. Export business moderate at \$3.00@3.10. Contract business at the works quoted at \$3.10 in carlots of 76 per cent in drums. Dealers quote 1¢/1 business at \$3.76@3.91 delivered. Reports from

Philadelphia indicate a price war is in progress and some low prices have been prevailing in that section.

**Sodium Bichromate**—A steady volume of business is reported with makers unchanged in their prices at 8¼¢@8¾¢lb. as to quantity and seller.

**Sodium Hyposulfite**—Imported is slightly stronger in pea crystals at 2.90@3.00 and domestic at \$2.75@3.00. Regular crystals at \$2.65@2.90.

**Sodium Sulfide**—Inquiries have been more numerous and buying has been more encouraging. Prices are holding steady at recent levels with solid at 3¼¢@4¢lb. and broken at 4¢@5¢lb. Crystals at 2¢@2¾¢lb. as to seller and quantity.

Exports in tanning materials from the Dutch East Indies during 1921 and 1922 were as follows: Gambier, 8,321 metric tons in 1921, 9,354 in 1922; areca nuts, 27,158 metric tons in 1921, 28,913 in 1922; tengar, 12,644 metric tons in 1921, 8,795 in 1922; cutch (prepared extract of mangrove bark), 981 metric tons in 1921, 928 in 1922.

"The whole leather industry, from the packer who sells hides to the shoe retailer, is sold short," said Sylvan M. Barnet, president of Barnet Leather Co., "Liquidation from the peak inflation of 1920 has been finally completed. This means the turn has come for the tanners."

The United States imported 7,065,906 pairs leather gloves, valued at \$6,882,416, last year, of which 3,613,945 were made in France and 2,566,920 in Germany. Total 700,000 less than 1922.

## Paper Chemicals

### Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Aluminum Sulfate .....	\$2.40	\$2.40	\$2.40	\$2.40	\$5.50	\$1.50
Bleaching Powder .....	1.50	1.50	1.50	2.00	9.50	1.50
Casein .....	.12½	.12½	.12½	.25	.28	.20
China Clay, Dom.....	10.00	10.00	10.00	15.00	25.00	8.00
Chlorine Cyl. ....	.04½	.04½	.04½	.05½	.30	.08
Salt Cake .....	21.00	21.00	21.00	25.00	80.00	11.00
Sodium Silicate, 40°.....	.80	.80	.80	.95	1.75	2.00
Soda Ash .....	1.38	1.38	1.38	1.45	4.10	.69
Sulfur .....	18.00	18.00	18.00	18.00	65.00	20.00
Rosin F grade .....	5.75	5.75	6.00	5.75	4.50	20.25
Average .....	6.100	6.100	6.125	7.195	13.30	5.50

Cheaper offers of imported salt cake are noted this week. Domestic makers quote their cake unchanged. While the cheaper grades of rosin remain firm, the higher priced grades show a slight softening in price. Stocks of imported casein in the East are said to be somewhat larger, although the price shows no recession from former levels. Buying is reported mostly in small lots, as though some mills are uncertain in regard to future price levels. Plenty of aluminum sulfate appears available on spot with a wide price range noted, according to seller. The opinion seems to prevail that only restricted movement of bleach and chlorine to paper and cotton mills, prevents prices from advancing further. Heavy imports of foreign pulp, which can be secured well under American cost of production, have induced many mills to close their pulp plants. This holds chemical consumption in the pulp mills, and chemical prices as well, at a minimum.

**Aluminum Sulfate**—Deliveries on contract have been

## AERO BRAND

### Yellow Prussiate of Soda Yellow Prussiate of Potash

A new source of supply based upon primary raw materials entirely of our own manufacture. Production and deliveries therefore are regular and dependable.

AERO BRAND Yellow Prussiate of Soda and Yellow Prussiate of Potash are products of exceptional purity and compare favorably with any other grade ever produced.

## AMERICAN CYANAMID CO.

511 FIFTH AVENUE, NEW YORK

Largest Manufacturers of Prussiates  
in the World

Sales Agents

HENRY W. PEABODY & COMPANY  
17 State Street, New York

VICTOR BLAGDEN & COMPANY, LTD.  
4 Lloyd's Avenue, London, E. C. 3, England

Trade



Mark

Faith in the dyestuffs and  
faith in the business  
methods of this company  
have given us an enviable  
list of customers. Our  
best efforts are devoted to  
meriting a continuance  
of their confidence.

Stocks carried in New York, Bos-  
ton, Philadelphia and Chicago.

## THE HELLER & MERZ CO.

505 HUDSON STREET NEW YORK

Boston Chicago Philadelphia  
287 Atlantic Ave. 109 W. Austin Ave. 114 Market St.  
Springfield, Mass.  
24 Lester St.

increasing and the outlook is improving. Prices hold at former levels with commercial at \$1.35@1.40 and iron-free at \$2.25@2.40.

**Blanc Fixe**—Demand along routine lines with prices steady at \$75.00@80.00 ton for dry and \$50.00@55.00 for pulp ton. Imported at \$70.00@72.00 ton.

**Bleaching Powder**—Demand from the mills is improving steadily and shipments are reported to be increasing. Prices are holding firm at recent levels at \$1.50 in large drums at works and up to \$1.90 for small drums and less than carlots.

**Casein**—The market is holding at 12½c/lb. though sales have been made slightly under this figure depending upon seller and quality. Imports at New York last week amounted to 417 bags.

**Chlorine**—Contract deliveries are proceeding steadily and increasing volume while new business is reported better. Prices hold at 3½c/lb. in tank cars and 4½c@5c/lb. in cylinders as to quantity.

**China Clay**—Deliveries reported about 75 per cent of normal and showing signs of increasing. Prices are steady at \$6.00@8.00 ton; washed and ground, \$7.50@12.00 ton; filler clay, \$13.00@16.00 ton; coating clay, \$25.00 ton.

**Salt Cake**—Supplies have been increasing and prices are inclined to be easier than recently. Imported material is offered at \$19.00@20.00 ton while domestic material is named at \$21.00@23.00 ton.

**Satin White**—Makers steady at \$1.45@1.50 as to quantity.

**Sodium Silicate**—Routine deliveries with prices steady at 75c for 40° in tanks and 80c@85c in drums. Sixty degree, \$1.75@2.00.

**Soda Ash**—Contract deliveries are reported steady while new business is more or less routine at present. Contract business is named at \$1.38 for 58 per cent light in carlots of bags at works; barrels at \$1.63 and bulk, \$1.25. Spot business in less than carlots at \$2.04 @ \$2.19 in bags and \$2.29@2.44 in barrels.

**Sulfur**—Crude named at \$14.00@15.00 ton at mines or \$18.00@19.00 New York.

**Talc**—High grade material named at \$13.50@15.00 ton on contract at the mines and \$14.00@18.00 in carlots.

**Rosins**—Lower grades have been firm and in smaller supply while better grade have declined 15c@25c. Demand has been showing a slight improvement. Quotations: B to I, \$5.75; K, \$6.10; M, \$6.25; N, \$6.50; WG, \$7.50; WW, \$7.75.

Dearth of demand for sulfur and sulfuric acid among New England paper mills, is attributed in no small way to large imports of foreign wood pulp. Many mills have been bringing in substantial quantities of foreign pulp in preference to making it themselves, as landed cost is considerably less than cost of manufacture. Several large paper mills which formerly made all their wood pulp, are now doing little in their pulp departments. The Eastern Manufacturing Co., for instance, while operating its paper department 90 per cent of capacity is running its pulp department less than 50 per cent of capacity.

Maine is cutting only two-thirds of its normal output of pulp wood this season, due to the pulp and paper companies still having large supplies of wood carried over from last year.

## Rubber Chemicals

	Trend of the Market				
	Today	Last Week	Last Month	Last Year	War Peak
Antimony Sulfide Crim....	\$39	\$39	\$39	\$35	\$45
Carbon Bisulfide .....	.06	.06	.06	.06	.10
Carbon Black .....	.11	.11	.11	.15	.20
China Clay, Imp.....	16.00	16.00	16.00	16.00	20.00
Hexamethylene .....	.82½	.82½	.82½	.97	1.35
Iron Oxide, Span.....	.03½	.03½	.03½	.04	.04½
Lithopone .....	.06½	.06½	.06½	.06	.08
Sulfur .....	3.05	3.05	3.05	2.50	6.50
Whiting, Dom. ....	14.00	14.00	14.00	18.00	30.00
Zinc Oxide, Amer. ....	.07¾	.07¾	.07¾	.07	.09½
Average .....	3.462	3.462	3.462	3.820	5.931

With a steady increase in production of rubber goods, demand for rubber chemicals is expected to broaden as Spring approaches. Although last week was quiet, the past fortnight has seen a gradual stiffening of prices from the sellers' point of view, and from now on they are more likely to refuse to shade quotations. The peak for the consumption of chemicals in the rubber industries is predicted to take place in April, according to the trade. Whiting has been in active demand during past week and easily features the market. White barytes is also moving in fair sized quantities. Benzene, 90 per cent, has again advanced. Whether or not the proposed investigation in the rapid rise of gasoline during the past month will have any effect on the market of this item, remains to be seen. Diphenylguanidine has declined and now quoted at \$1.05@1.15 lb. spot as to seller and quantity. Hexamethylene is active both for domestic consumption and for export. Sulfur is routine outside of the regular contract deliveries.

**Acetone**—Producers have reduced acetone to 19c@19½c/lb. for the C.P. Methyl continues at \$1.05@1.10 per gallon and acetone oils, \$1.25@1.30 gallon.

**Aniline Oil**—In slightly better inquiry at 16c@17c/lb. works, 17c@18c/lb. spot.

**Aluminum Flake**—Demand routine and supplies ample for all present needs at \$23@27 ton works.

**Antimony Sulfide**—Quoted at 19c@24c/lb. spot for golden, and 39c@50c/lb. spot for crimson.

**Asbestine**—Quiet and routine at \$18@20 ton works as to quantity and quality.

**Benzene**—Ninety per cent has advanced and now quoted at 23c@25c gal. works in tanks, and 28c@30c gal. in drums. Pure is firm at 24c@26c gal. in tanks, and 29c@33c gal. in drums. Market strong with higher tendencies.

**Blanc Fixe**—Quiet at 4c@4½c/lb. f.o.b. New York.

**Carbon Bisulfide**—Steady at 6c@6½c/lb. spot as to quantity.

**Carbon Black**—Spot air floated unchanged at 13c@15c/lb. in cases, ordinary at 11c@13c/lb. and compressed at 11c@13c/lb. Reports are heard that a gradual firming up will take place with the peak in April. Export of carbon and lamp black during 1923 were 29,020,743 pounds, valued at \$4,723,166, compared with 17,062,311 pounds, valued at \$2,028,105, in 1922.

**China Clay**—Imported quoted at \$18@20 ton spot, and domestic at \$13@20 ton works. Imports of kaolin, china, and paper clay 279,166 tons, valued at \$3,050,099, compared with 276,968 tons, valued at \$2,966,805, in 1922.

**Diphenylguanidine**—Quoted lower at \$1.05@1.15 lb. spot as to seller and quantity.

**Hexamethylene**—In active demand at 82½c@85c/lb. spot as to quantity.



**Iron Oxide**—Quoted at 3½¢@7½¢lb. spot for Spanish, and 12¢@16¢lb. for English.

**L'tharge**—Named at \$10.75@\$11.00 cwt. spot.

**Lithopone**—Quoted at 6½¢@7½¢lb. spot. Exports during 1923 were 2,970,743 pounds, valued at \$176,624, compared with 3,231,722 pounds, valued at \$169,982, in 1922.

**Mineral Rubber**—Named at \$35@\$50 ton for 300-315 quality.

**Quinoidine**—First hands name 55¢lb. spot in drums.

**Sulfur**—Quoted unchanged at \$3.05@\$3.30 cwt.; superfine at \$2.50@\$2.90 cwt.; and chloride at 6¢@7¢lb. spot.

**Talc**—Domestic named at \$15@\$18 ton works; French at \$40@\$45 ton; and Italian at \$47@\$58 ton. During past week 610 bags were imported at New York from Genoa.

**Thiocarbaniide**—Quoted at 28¢@30¢lb. spot.

**White Barytes**—In active demand at \$24@\$26 ton f.o.b. St. Louis, and imported at \$29@\$35 ton spot.

**Whiting**—Feature of the market last week in regard to activity at \$13@\$15 ton for domestic, and \$16@\$18 ton for imported.

**Zinc Oxide**—Some fair sized quantities have passed into consumption at 7¼¢@8¼¢lb. spot. Exports during 1923 were 10,047,408 pounds, valued at \$743,577, compared with 7,953,847, valued at \$593,128, in 1922.

Chester Carbon Co., Hancock, La., reports that two carbon black plants are well under way on the company's forty-acre tract. The plants will cost about \$500,000.

## Textile Chemicals

### Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Acid, Acetic, 28% .....	\$3.38	\$3.38	\$3.38	\$3.17½	\$17.00	\$1.50
Acid Oxalic .....	.11	.11½	.11½	.12	.70	.07½
Bleaching Powder .....	1.50	1.50	1.50	2.00	9.50	1.80
Copper Sulfate .....	4.65	4.65	4.65	6.00	20.00	4.50
Epsom Salt, U.S.P. ....	2.10	2.10	2.10	2.25	4.25	1.50
Glauber's Salt .....	1.30	1.30	1.30	1.25	2.50	.80
Potash, Caustic, Imp. ....	.06½	.06½	.06½	.07	.87	.12
Soda Ash, 58% wks. ....	1.38	1.38	1.38	1.45	4.10	.69
Soda Caustic, 76% wks. ....	3.10	3.10	3.10	3.16½	9.50	1.80
Sodium Bichromate .....	.07½	.07½	.07½	.07½	.45	.04½
Average .....	1.762	1.762	1.762	1.864	4.800	1.42

A three cornered fight between makers and importers of oxalic acid, finds one maker leading the race toward lower levels with a further cut in the price this week. Such cotton, woolen, and silk mills as desire to buy oxalic acid from American makers at 10½¢@11¢ per pound, can now do so. Importers are still trying to get 11¼¢. Demand is of small consequence. Any real buying would force the price up sharply. Potash carbonate is easier. Imported Epsom salt is scarce, as is also the case with white imported sal ammoniac. Tin salts continue in demand even at the high prices ruling. Bleach and chlorine are firm. Slow demand from cotton and paper mills holds prices down. Yellow potash prussiate is easier. Sodium prussiate is firmer. Chemicals moving to the silk and woolen mills are in fair volume; to cotton mills, still very limited.

**Acid, Acetic**—Steady at former prices with demand somewhat routine. Calcium acetate appears firm and no changes are anticipated in prices. Makers quote

*The Big*



## Shade—Strength—Solubility

Are Standard qualities  
invariably found in

# KATIGEN DEEP BLACK GGN

(Concentrated)

A leader among quality dyes

## The Grasselli Chemical Co.

Dyestuff Department

117 HUDSON STREET

Boston

Providence

New Orleans

Philadelphia

San Francisco

Chicago

NEW YORK

Charlotte

28 per cent at \$3.38@3.63; 56 per cent, \$6.75@7.00; 70 per cent, \$8.38@8.63; glacial, \$12.78@13.53.

**Acid, Oxalic**—Owing to keen competition in the market prices of domestic material have been cut to 11c. Imported is also easier though quoted at 11½c@11½c.

**Acid, Formic**—Importers report an active demand and with supplies in small volume and prices firm at 13½c@14c. for 90 per cent grade.

**Bleaching Powder**—Demand from the mills is improving steadily and shipments are reported to be increasing. Prices are holding firm at recent levels at \$1.50 in large drums at works and up to \$1.90 for small drums and less than carlots.

**Chlorine**—Contract deliveries are proceeding steadily and increasing volume while new business is reported better. Prices hold at 3½c. in tank cars and 4½c@5c. in cylinders as to quantity.

**Epsom Salt**—Imported technical is firm at the higher levels at \$1.15@1.20 and domestic at \$1.80@2.00. U. S. P. material at \$2.19@2.50 for domestic and \$2.00@2.25 for imported.

**Glauber's Salt**—Demand has been gaining as some sections show increased activity. Prices are steady at \$1.30@1.75 according to quantity.

**Potash, Caustic**—The recent firmer tone continues with demand restricted to routine quantities. Spot prices quoted at 6½c@6¾c. for imported while domestic is named at 8c.

**Potassium Bichromate**—While demand has shown no further increases, prices remain firm at former levels. Makers quote 9½c@10c. according to quantity.

**Potassium Prussiate**—Demand has been improving but prices continue to be shaded. Imported and domestic yellow offered at 19½c. Red at 45c@48c.

**Soda Ash**—Contract deliveries are reported steady while new business is more or less routine at present. Contract business is named at \$1.38 for 58 per cent light in carlots of bags at works; barrels at \$1.63 and bulk, \$1.25. Spot business in less than carlots at \$2.04@2.19 in bags and \$2.29@2.44 in barrels.

**Soda, Caustic**—Little change in the situation with new business moderate and deliveries in contracts in steady volume. Export business moderate at \$3.00@3.10. Contract business at the works quoted at \$3.10 in carlots of 76 per cent in drums. Dealers quote 1c/l business at \$3.76@3.91 delivered. Reports from Philadelphia indicate a price war is in progress and some low prices have been prevailing in that section.

**Sodium Acetate**—Supplies are not as abundant and prices are firmer with quotations at 4¾c@5½c. as to sellers and quantity.

**Sodium Bichromate**—A steady volume of business

is reported with makers unchanged in their prices at 8½c@8¾c. as to quantity and seller.

**Sodium Prussiate**—Better demand is reported and prices are firmer than recently. Imported is named at 11½c@11½c. while domestic is offered at 12c. at the works.

**Sodium Sulfide**—Inquiries have been more numerous and buying has been more encouraging. Prices are holding steady at recent levels with solid at 3½c@4c. and broken at 4c@5c. Crystals at 2c@2¾c. as to seller and quantity.

**Tin Salts**—Tin has been advancing steadily and further advances in tin salts are expected. Crystals are now quoted at 35½c@36c.; bichloride, 14c.; tetrachloride, 28½c.; oxide, 53c@55c.

#### Starches and Dextrines

No further changes are reported and prices appear steady at the recent advance. Demand is fair and improvement is expected during the next month. British gum named at \$3.94@4.19 as to quantity. White corn dextrine at \$3.59@3.69; yellow, \$3.64@3.74; potato, 7½c@8c. Powdered starch, \$3.17@3.27; pearl, \$3.07@3.17. Potato, 5c@6c.; tapioca, 4c@7c. Technical albumen continues scarce and prices are firm at \$1.20@1.25.

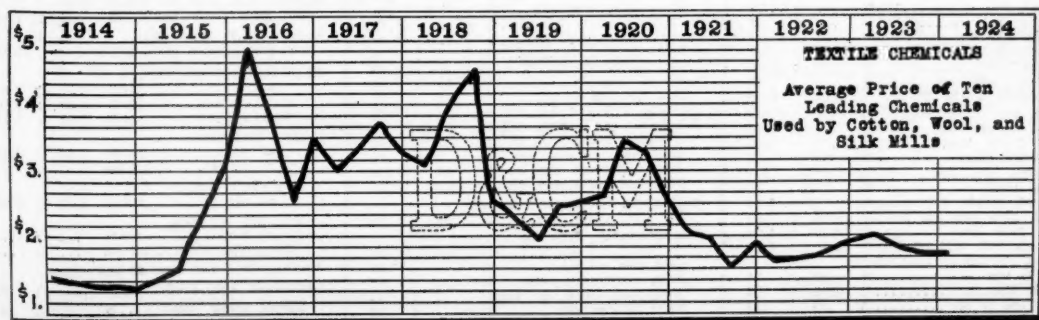
The American Woolen Company will open its fancy worsteds for the fall 1924 season, on February 18, and its women's wear fabrics are expected to be opened shortly after, according to reports in Boston. Initial buying on the staple suitings, opened on January 31, has been on a much more conservative basis than during previous seasons. The company is featuring the more conservative color effects in all its lines for fall 1924. Sport cloths are shown in rather a large way but there is an absence of bright colors of a couple of years ago.

Knitted outerwear manufacturers, especially those making artificial silk ties, claim that the reduction in the price of artificial silk by Viscose Co. will cost many of them thousands of dollars, owing to the fact that competitors who have not bought supplies can obtain them at the lower price and sell at a profit far below manufacturers, who have purchased artificial silk at the prices heretofore prevailing.

Howell F. Sheppard, Boston office, E. I. Du Pont de Nemours & Co., has gone to the Wilmington plant where he will remain for about six months.

A little improvement in the demand for dyestuffs in the Boston market has been noted this week although the turnover remains small.

Giles Low, of Newport Chemical Works, New York, is confined to his home by illness.



# Prices Current of Fine and Heavy Chemicals, Drugs, Essential Oils, Dyestuffs and Oils

**CLASSIFICATION**—Prices quoted herein are listed in the following groups: **Chemicals**, including heavy and technical chemicals, fine and medicinal chemicals, aromatic chemicals and isolates, crudes and intermediates from coal-tar, various fine alkaloids, and miscellaneous products; **Crude Drugs, Essential Oils**, including oleoresins; **Fatty Oils**, including Animal, Vegetable and Fish Oils, Greases, Fats, and Tallow; **Tanning and Dye Extracts**, including miscellaneous natural tanning woods, extracts, etc. All groups are arranged in straight alphabetical order.

**Packages**—Prices are for large quantities in original packages of the customary trading units of weight or measure. A container given in connection with a price does not necessarily mean that this is the quantity on which the price is based. Containers named are the original packages most commonly sold in this market.

**QUOTATIONS**—Chemical prices quoted herein are those of American manufacturers unless otherwise specified. Quotations on imported chemicals are so designated. Where resale or "second hand" stocks of any chemical product are sufficient to be considered a factor in determining the market, prices for goods in this class will be quoted in addition to makers' prices available, and indicated as such. Chemical prices quoted herein are for goods spot New York or Metropolitan

District, f. o. b. or ex-store, for immediate shipment, unless otherwise specified. Numerous domestic-made heavy or industrial chemical products are sold principally on a basis of f. o. b. works, and are thus quoted in the list herein, each instance of a "works" price, however, being specified as such.

Fatty Oils prices quoted herein are for goods spot New York unless otherwise noted; f. o. b. mills and Coast prices being designated as such. Crude Drugs and Essential Oils are quoted f. o. b. New York (Manhattan with limitations) for immediate shipment. Tanning and Dye Extracts are quoted spot New York unless otherwise noted.

**WEIGHTS AND MEASURES**—All quotations are made on a basis of avoirdupois pounds and ounces, and American gallons. The following equivalents are given for the reference of exporters, importers, and foreign buyers:

1 Imperial Gallon (British)	—1.20	American Gallons
1 American Gallon	— .833	Imperial Gallon
1 American Gallon	—3.79	Liters
1 Liter	— .264	American Gallon
1 American Gallon (Water)	—8.35	Pounds
1 Pound (Avoirdupois)	— .454	Kilograms
1 Kilogram	—2.20	Pounds

Style and Arrangement Copyright by DRUG & CHEMICAL MARKETS, 1922

## Chemicals

<b>ACETANILID</b> , tech. 150 lb bbls. D	.37	: .38	<b>Acid, Carbolic</b> —(continued)			<b>Acid, hydrofluoric</b> —(continued)		
100 lb kgs. .... D	.28	: .30	Crude, 35% 50 gal. bbls. gal	.35	: .36	60% 100 lb chy. wks. .... D	...	: .14
USP 200 lb bbls. .... D	.32	: .33	10% 50 gal. bbls. .... gal	.30	: .32	60% 300 lb dr. wks. .... D	...	: .13
Second Hands .... D	.29	: .30	Chloracetic, none 100 lb bbls. wks. .... D	...	: .30	White Acid, 100 lb chy. wks. .... D	...	: .26
<b>Acetic Anhydride</b> , 85% 450 lb drs. D	...	: .38	DI, 150 lb chy. wks. .... D	...	: 1.00	White Acid, 10 chy. wks. .... D	...	: .25
85%, 107 lb chy. .... D	...	: .38	Tri, 425 lb bbls. wks. .... D	...	: 2.45	<b>Hydrofluosilicic</b> , 35% 450 lb bbls. wks. .... D	...	: .12
92-95% 100 lb chy. .... D	.43	: .45	<b>Chlorosulfonic</b> , 1500 lb drs. wks. .... D	.15	: .16	<b>Hypophosphorous</b> , USP 30% 5 gal. dems. .... D	...	: .95
<b>Acetone</b> , CP 700 lb drs. c/l wks. .... D	...	: .19	Chromic, USP 200 lb drums. .... D	...	: .40	USP, 10% 5 gal. dems. .... D	...	: .32
700 lb drs. lc/l wks. .... D	...	: .19½	85% Pure, 200 lb drums. .... D	...	: .35	<b>LACTIC</b> , 22% dark 500 lb bbls. .... D	...	: .04½
350 lb drs. lc/l wks. .... D	...	: .20	<b>Chromotropic</b> , 300 lb bbls. .... D	...	: 1.35	22% light, bbls. .... D	...	: .05½
Second Hands, spot. .... D	...	: .20	Chrysanthic, see Chrysanthin	...		44% dark, bbls. .... D	...	: .09½
<b>Acetone Oils</b> , light, drs. wks. .... gal	1.35	: 1.40	Cinnamic, 5 lb cans. .... D	...	: 3.93	44% light, bbls. .... D	...	: .11½
Heavy, drs. wks. .... gal	1.25	: 1.30	<b>CITRIC</b> , USP crys 230 lb bbls. D	...	: .48	60% bbls, dark, bbls. .... D	...	: .14½
<b>Acetphenetidin</b> , 150 lb bbls. .... D	1.85	: 1.90	Powd., USP 200 lb bbls. .... D	...	: .49	66% light, bbls. .... D	...	: .25
<b>Acetyl Chloride</b> , 100 lb chy. .... D	.49	: .41	Imported, crys. 112 lb kgs. .... D	.48	: .49	USP IX 100 lb chy. .... D	.70	: .75
<b>ACID</b> , 1, 2, 4, 350 lb bbls. .... D	...	: 1.30	Single kgs. .... D	.48	: .49	USP VIII 100 lb chy. .... D	...	: .70
Acetic, 28%, 400 lb bbls. c/l wks. .... 100 lb	...	: 3.38	Clews, 250 lb bbls. .... D	1.00	: 1.10	Laurent's, 250 lb bbls. .... D	...	: .90
38%, lc/l wks. .... 100 lb	...	: 3.63	Creylic, 95% dark dr. NY. .... gal	.70	: .75	Metanilic, 250 lb bbls. .... D	.60	: .65
56%, c/l wks. .... 100 lb	...	: 6.75	97-99% straw, drs. wks. .... gal	...	: .75	<b>Mixed, sulfuric-nitric</b>		
56%, lc/l wks. .... 100 lb	...	: 7.00	97-99% pale, drs. NY. .... gal	.70	: .75	Drums, wks. .... N Unit	.07%	: .08
70%, bbls. c/l wks. .... 100 lb	...	: 8.38	Crude, spot, drums. .... gal	.60	: .65	Drums, wks. .... S Unit	.01	: .01½
70%, lc/l wks. .... 100 lb	...	: 8.65	<b>Diethylbarbituric</b> , 10 lb lots, 1 lb bot. .... D	8.50	: 10.50	Tank cars, wks. .... N Unit	.06%	: .07
80% coml. bbls. c/l wks. .... 100 lb	...	: 9.58	Formic 85% tech. 140 lb chy. .... D	.13	: .13½	Tank cars, wks. .... S Unit	.0009	: .01
80% coml. lc/l wks. .... 100 lb	...	: 11.41	90%, 80 lb chy. incl. .... D	.13½	: .14	<b>Molybdic</b> , 65% pure 1 lb bot. .... D	1.60	: 1.70
80%, pure lc/l wks. .... 100 lb	...	: 11.60	Gallic, USP, 150 lb bbls. .... D	...	: .70	85% pure, 100 lb kgs. .... D	...	: 1.85
Glacial, bbls. c/l wks. .... 100 lb	...	: 12.78	Gamma, 225 lb bbls. wks. .... D	...	: 1.60	<b>Monosulfuric F, Delta</b> , 50 lb time .... D	...	: 2.25
Glacial, lc/l wks. .... 100 lb	...	: 13.03	Bbls., ten lots wks. .... D	...	: 1.60	<b>MURIATIC</b> , 20° chy. lc/l		
Glacial USP chy. wks. .... 100 lb	...	: 13.53	Glycerophosphoric, 55% 1 lb b. .... D	1.80	: 1.80	Wks. .... 100 lb	1.45	: 1.80
<b>Acetylmethyl</b> , 230 lb bbls. .... D	.75	: .85	H 235 lb bbls. .... D	.75	: .80	Chy. c/l wks. .... 100 lb	1.30	: 1.40
Second Hands .... D	.71	: .74	Bbls., ten lots wks. .... D	.72	: .75	Tank cars, wks. .... 100 lb	1.00	: 1.10
<b>Anthranilic</b> , tech. drs. .... D	...	: .94	Hydroiodic, 10% USP 5 lb bot. .... D	...	: .73	<b>18°, 120 lb chy.</b>		
99-100% 100 lb drs. .... D	...	: 1.00	Hydrobromic, 48% coml. 155 lb chy. wks. .... D	.35	: .40	c/l wks. .... 100 lb	1.00	: 1.10
<b>Benzoic</b> , tech. 100 lb bbls. .... D	...	: .75	48% coml. 10 chy. wks. .... D	...	: .40	Tank cars, wks. .... nat ton	...	: .10
Tech. ten lots bbls. .... D	...	: .79	40% USP 155 lb chy. wks. .... D	.45	: .46	<b>22°, 120 lb chy.</b>		
USP, 100 lb bbls. .... D	.72	: .77	10% USP 100 lb chy. wks. .... D	.11	: .13	c/l wks. .... 100 lb	1.75	: 2.00
Second Hands .... D	.72	: .77	<b>Hydrochloric</b> , see also Acid Muriatic			<b>Iron, free 30° chy.</b>		
<b>Boric</b> , crys. powd. 250 lb bbls. D	...	: .11½	CP, USP, 110 lb chy. .... D	.09	: .11	c/l wks. .... 100 lb	...	: .10
Kegs, 100 lb .... D	...	: .11½	<b>HYDROFLUORIC</b> , 30% 400 lb bbls. wks. .... D	...	: .07	Tank cars, wks. .... nat ton	...	: .10
<b>Bromine's</b> 250 lb bbls. .... D	...	: 1.15	30% bbls. c/l wks. .... D	...	: .06	<b>Muriatic</b> , CP & USP, see Acid Hydrochloric		
<b>Butyric</b> , 60% pure 5 lb bot. .... D	.50	: .60	30% 100 lb chy. wks. .... D	...	: .07	<b>Naphthionic</b> , tech. 250 lb bbls. .... D	...	: .62
C.P. 10 lb bot. .... D	1.25	: 1.50	48% single 100 lb chy. wks. .... D	...	: .11	Refined, single bbls. .... D	...	: .65
<b>Camphoric</b> , USP, VIII 1 lb bot. .... D	5.90	: 6.00	48% 10 chy. wks. .... D	...	: .10	<b>Nettle &amp; Winter's</b> , 250 lb bbls. .... D	1.05	: 1.10
Carbolic, USP crys. see also Phenol			52% 100 lb chy. wks. .... D	...	: .12			
112 lb time .... D	.30	: .31	52% 10 chy. wks. .... D	...	: .11			
25 lb time .... D	.32	: .33						
5 lb time or bot. .... D	.35	: .36						
1 lb bot. .... D	.39	: .40						
Liquid USP, 1 lb bot. .... D	.38	: .39						



## COOPER C. P. ACIDS

**HYDROCHLORIC    NITRIC    SULPHURIC**

6 lb. bots. Case 12 bots.  
Carboys 47 and 112 lbs.

7 lb. bots. Case 12 bots.  
Carboys 50 and 137 lbs.

9 lb. bots. Case 12 bots.  
Carboys 75 and 180 lbs.

Cooper standard quality chemicals have been maintained for 65 years by a policy of conformity to the most exacting specifications of advanced laboratory science.

MANUFACTURERS

Since  
1857

**CHAS. COOPER & CO.**

194 Worth Street, New York

WORKS

Newark  
N. J.

There can be no higher degree of purity  
than that which is presented to you  
under the label of



**CODEINE  
SULPHATE**

AND ITS SALTS

*N. Y. Q. Samples and Prices sent on request.*

**The New York Quinine &  
Chemical Works, Inc.**

152-154 William St., New York

Saint Louis Depot: 18 South Broadway

Specify P-W-R

**Household Chemicals**

Boric Acid    Epsom Salt

Sodium Bicarbonate

Sugar of Milk    Zinc Stearate

Sodium Phosphate

Hydrogen Peroxide Solution

Soda Chlorinated Solution

PUT UP IN ATTRACTIVE CONTAINERS

**POWERS-WEIGHTMAN-ROSENGARTEN CO.**

MANUFACTURING CHEMISTS

New York    PHILADELPHIA    St. Louis

**Tribasic Calcium Phosphate**  
PRECIPITATED U. S. P.

**WILCKES-MARTIN-WILCKES CO.**

135 WILLIAM STREET


NEW YORK CITY

## Chemicals

<b>ACID, NITRIC, 86° 135D</b>			<b>Acid Sulfuric</b>			<b>ALCOHOL—(continued)</b>		
1c/l chys. wks. ....100D	4.75	: 5.00	Oleum, 30 p.c. 1500D drums,			Isopropyl, crude 50 gal. drs. gal	...	: 2.25
Chys. c/l wks. ....100D	4.50	: 4.75	1c/l wks. ....100D	1.50	: 1.75	Refined, 50 gal. drs. ....gal	4.00	: 4.50
38° 1c/l chys. wks. ....100D	5.25	: 5.75	Drums, c/l wks. ....100D	1.25	: 1.50	Ref'd, 91% drs. ....gal	...	: 3.50
Chys. c/l wks. ....100D	5.00	: 5.25	Tank cars, wks. ....net ton	17.00	: 18.00	Methyl, see Alcohol, Wood		
40° 1c/l chys. wks. ....100D	5.75	: 6.00	Contract cars, wks. ....net ton	...	: ...	Propyl, nml. crd. 50 gal. drs. gal	...	: 4.40
Chys. c/l wks. ....100D	5.50	: 5.75	Oleum, 40% drs 1c/l wks. net ton	...	: 40.00	Refined, 10D cans. ....D	...	: .75
42° 1c/l chys. wks. ....100D	6.25	: 6.75	Oleum, 60% drs., 1c/l wks. net ton	...	: 70.00	Denatured		
Chys. c/l wks. ....100D	6.00	: 6.25	Sulfurous, USP 6% 100D chys. D	.05	: .08	No. 1 Complete Denat. 188 Proof		
C. P. chys. single wks. ....100D	.14	: .16	4% 100D chys. ....D	.04	: .05	50 gal. bbls. incl. ....gal	.56	: .58
Oxalic, 325D bbls. wks. ....D	.11	: .11½	USP, 5 gal. dems. ....D	.08	: .08	50 gal. drums, extra. ....gal	.51	: .53
Bbls., NY ....D	.11	: .11½	Tannic, tech. 300D bbls. ....D	...	: .35	No. 1 Special Denat. 190 Proof		
Imp., 560D cans. ....D	.11½	: .11½	USP, powd. 300D bbls. ....D	.80	: .83	50 gal. bbl. incl. ....gal	.54	: .56
Keps, 100D NY. ....D	...	: .13	USP, fluffy, 50D bbls. ....D	.80	: .83	50 gal. drums, extra. ....gal	.48	: .50
Phosphoric, 50% tech. 100D			Tartaric USP cryst 300D bbls. D	...	: .30	No. 5 Complete Denat. 185 Proof		
chys. ....D	.07½	: .08	USP, powd. 300D bbls. ....D	...	: .30	50 gal. bbls. incl. ....gal	.53	: .55
USP, Syrupy 85°, 70D.			Imp. USP, 240D bbls. ....D	.27½	: .28	50 gal. drums, extra. ....gal	.47	: .49
demis. ....D	.13	: .13	Powd. 240D bbls. ....D	.27½	: .28	No. 6 Complete Denat. 188 Proof		
Imported ....D	...	: .13	Tobias, 250D bbls. ....D	.95	: 1.05	50 gal. bbls. incl. ....gal	.53	: .55
Phthalic, see Phthalic Anhydride			Tungstic, 100D kgs. ....D	...	: 1.00	50 gal. drums, extra. ....gal	.47	: .49
Picramic, 300D bbls. ....D	...	: .85	Valeric, C.P., 10D bot. ....D	4.00	: 4.25	In addition to the regular authorized formulae for completely denatured alcohol, some 75 formulae for specially denatured alcohol are authorized for special uses. Owing to the limitations of their uses however, prices are quoted by the alcohol producers only to holders of permits allowing the use of specially denatured formulae in products authorized by the Dept. of Internal Revenue.		
Picric, 450D bbls. ....D	...	: .80	Acetone, 1 c. vis. ....D	...	: 30.00	Alotin, USP 100D cases. ....D	.90	: .95
Bbls., car lots wks. ....D	.30	: .35	Amorphous, 1 c. vis. ....D	...	: 20.00	Alpha-Naphthol, crude 300D bbls. D	...	: .65
Pyrogallic, crys. 5D cans. ....D	1.30	: 1.40	Adeps Lanase, hydrous 350D bbls. D	.21	: .23	Refined, 300D bbls. ....D	...	: .75
Resublimed, 5D cans. ....D	1.50	: 1.60	Anhydrous, 350D bbls. ....D	.28	: .34	Alpha-Naphthylamine, 350D bbls. D	.35	: .37
Tech. powd., 200D bbls. ....D	...	: 1.15	Albumen, Egg, edible. ....D	...	: 1.25	Ton lots, bbls. wks. ....D	...	: .35
Salicylic, tech. 125D bbls. ....D	.33	: .34	Technical, see Dyes Sundries					
USP, 100D bbls. ....D	...	: .35	ALCOHOL, USP 190 pf. 50 gal. bbls. ....gal	4.83	: 4.91			
Second Hands. ....D	...	: .35	Second Hands, bbls, USP 190 pf. ....gal	...	: ...			
Sulfanilic, 250D bbls. ....D	.17	: .20	Export, USP, 190 pf. ....gal	.45	: .83			
SULFURIC, 66° 180D chys.			Cologne Spirit, 50 gal. bbls. gal	4.90	: 5.00			
1c/l wks. ....100D	1.85	: 1.75	WOOD, see Methanol					
Chys. 1c/l wks. ....100D	1.25	: 1.40	Alcohols, also in 50 gal drums, extra and returnable.					
1500D Drums, 1c/l wks. ....100D	...	: 1.35	Amyl, see Oil Fuel					
Drums, c/l wks. ....100D	...	: 1.10	Butyl, 50 gal. drums. ....D	.45	: .50			
Tank cars, wks. ....net ton	15.00	: 16.00	Isobutyl, crude 50 gal. drums. gal	...	: ...			
60° 1500D Drums.			Refined, 10D can. ....D	2.00	: 2.50			
1c/l wks. ....100D	.70	: .80						
Drums, c/l wks. ....100D	.60	: .80						
Tank cars, wks. ....net ton	9.00	: 10.00						
C. P. 175D chys. ....100D	.08	: .08						

# General Chemicals

A MARK OF PLEDGED RESPONSIBILITY



ON PRODUCTS OF STANDARD MERIT

## Tin Crystals

Sulphuric Acid	Nitric Acid	Hydrofluoric Acid
Acetic Acid	Ammonia Alum	Salt Cake
Epsom Salt	Aluminum Sulphate	Sodium Sulphide
Hydrochloric Acid	Copperas Nitrate Iron	Sodium Silicate
Mixed Acids	Aqua Ammonia	Sodium Phosphate

### GENERAL CHEMICAL COMPANY

40 Rector Street, New York

Baltimore	Chicago	Denver	Philadelphia
Buffalo	Cleveland	Easton	Pittsburgh
			Providence
			San Francisco

The Nichols Chemical Co., Ltd., Montreal  
Cable Address: Lycurgus, N. Y.

MECCO
ALPRO
CENOCO
MECCO
ALPRO
CENOCO


ACETATES

AMYL
BUTYL
ETHYL

*The Miner Edgar Company*  
*Rail and Water Facilities*  
*110 William Street*  
*New York*

MECCO
ALPRO
CENOCO
MECCO
ALPRO
CENOCO

C6-C-C-C
C6-C-C-C
C6-C-C-C
C6-C-C-C
C6-C-C-C
C6-C-C-C
C6-C-C-C



## ETHYLENE DICHLORIDE

Non-Corrosive Chlorinated Solvent

*An ideal solvent for*

**FATS, OILS, WAXES, GUMS,  
RESINS AND ESTERS**

*Applicable in*

**Commercial Extractions, Degreasing,  
Varnishes, Pharmaceuticals, Rubber**

**A PURE CHEMICAL COMPOUND**

**Will not Corrode Metal**

**Diminishes Fire Hazard**

**Is Stable to Alkali, Acid or Chemical Reagents**

**CARBIDE AND CARBON CHEMICALS CORPORATION**

CARBIDE AND CARBON BUILDING, 30 EAST FORTY-SECOND STREET, NEW YORK  
 Telephone Vanderbilt 8700

C6-C-C-C
C6-C-C-C
C6-C-C-C
C6-C-C-C
C6-C-C-C
C6-C-C-C
C6-C-C-C

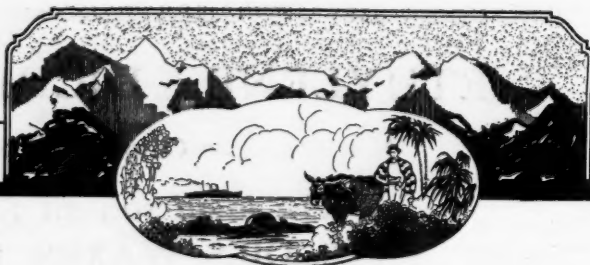
**Acetaldehyde**  
 Acetalcohol  
 Acetylene Tetrachloride  
 Diethyl Sulphate  
 Ethylene Chlorhydrin  
 Ethylene Dichloride  
 Ethylene Glycol  
 Ethylene Oxide  
 Glyco' Diacetate  
 Hexachlorethane  
 Isopropyl Chloride  
 Isopropanol  
 (Isopropyl Alcohol)  
 Paraldehyde  
 Propylene Chlorhydrin  
 Propylene Dichloride  
 Propylene Glycol  
 Propylene Oxide  
 Pentachlorethane  
 Perchlorethylene  
 Trichlorethylene

*These chemicals were developed and are made by us. Consult our Research Department about them.*



## Chemicals

<b>ALUM, Ammonia, lump 400 lb bbls.</b>			<b>AMMONIA anhyd. 100 lb cyl.... lb</b>			<b>AMMONIUM—(Continued)</b>		
ws. ....100 lb	3.50	: 3.65	Water, 26° 800 lb dra. ws.... lb	...	: .06%	Persulfate, 112 lb cases..... lb	.40	: .45
Imp., 500 lb cases....100 lb	...	: ...	Dra. c/l ws.... lb	...	: .06%	Phosphate, dibasic 200 lb bbls. lb	.35	: .36
Ground, 400 lb bbls. ws.100 lb	3.65	: 3.75	C.P., chys. .... lb	...	: .14	Tech., powd. 325 lb bbls.... lb	.13	: .14
Powd. 380 lb bbls. ws.100 lb	3.90	: 4.00	Imp., 800 lb dra.incl.spot. lb	...	: .06%	Salicylate, USP 100 lb kegs.... lb	...	: .80
Chrome 500 lb cks. ws.100 lb	5.50	: 6.00	26° 100 lb chys. lc/l ws. lb	...	: .07%	Sulfate, bulk c/l ws....100 lb	...	: 3.00
Potash, lump 400 lb bbls.	...	: ...	Chys., c/l ws.... lb	...	: .07%	200 lb single bgs.c/l ws.100 lb	...	: 3.15
ws. ....100 lb	...	: 4.50	20°, 800 lb dra. lc/l ws. lb	...	: .05%	200 lb double bgs, f.a.s.100 lb	2.85	: 2.90
Bbls. c/l ws....100 lb	...	: 4.25	Chys., lc/l ws.... lb	...	: .06%	Sulfocyanide, tech. 100 lb kegs. lb	...	: .50
Cont. bbls. c/l ws....100 lb	...	: 4.25	18°, 800 lb dra. lc/l ws.... lb	...	: .04%	CP, 25 lb jars..... lb	.75	: .80
Imp. 650 lb cases s.p....100 lb	2.90	: 3.00	Chys., lc/l ws.... lb	...	: .05%	Amyl Acetate, tech. 50 gal. dra.gal	4.65	: 4.75
Ground, 400 lb bbls. ws.100 lb	4.35	: 4.60	16°, 800 lb dra. lc/l ws.... lb	...	: .04%	90%, 5 gal. cans.....gal	7.00	: 8.00
Imp. 650 lb cases....100 lb	3.00	: 3.25	Chys., lc/l ws.... lb	...	: .05%	Alcohol, see Fuel Oil	...	: ...
Powd., 380 lb bbls. ws.100 lb	4.50	: 4.75	Ammonium Acetate, 100 lb kegs. lb	...	: .40	<b>ANILINE OIL, 900 lb dra.... lb</b>	.16	: .17
Chrome, 700 lb cks ws.100 lb	5.50	: 6.00	Benzoate, USP, 1 lb bot.... lb	.98	: 1.05	Aniline Salt 200 lb bbls.... lb	.23	: .24
Soda, grd. 400 lb bbls. ws.100 lb	...	: 4.00	Fluoride, 300 lb bbls.... lb	.32	: .23	Anthracene, 80-85%, 600 lb cases	...	: ...
Bbls. c/l ws....100 lb	...	: 3.50	100 lb kegs ..... lb	.23	: .24	ws. .... lb	.75	: 1.00
<b>Aluminum, metal, c/l NY....100 lb</b>	27.50	: 28.00	Bromide, 50 lb boxes..... lb	.36	: .37	80-85%, 600 lb cases ws.... lb	.75	: 1.00
Chloride, anhyd. 275 lb dra.. lb	.20	: .23	Imported, 112 lb boxes..... lb	.30	: .21	28-30%, Imp. .... lb	...	: .05
30% sol. 120 lb chys.... lb	.03%	: .04	Carb., tech. 560 lb cases.... lb	...	: .10	Anthraquinone, subl. 125 lb bbls. lb	1.15	: 1.25
Hydrate 96% light 90 lb bbls. lb	.17%	: .18%	Powd., tech. 385 lb bbls. lb	...	: .09	30% paste 350 lb bbls.... lb	...	: ...
Heavy, 62-64%, 220 lb bbls. lb	.08	: .08%	USP, lump, 100 lb kegs.... lb	...	: .09%	Antimony metal, slabs ton lots100 lb	10.50	: 10.62%
400 lb bbls. ws.... lb	.06%	: .07	Powd., 100 lb kegs.... lb	...	: .10%	Needle Powd., 100 lb cases.... lb	.08	: .09%
<b>SULFATE, Iron-free bags c/l</b>	...	: ...	Chloride, Domestic	...	: ...	<b>ANTIMONY CHLORIDE, anhyd 1000 lb</b>	...	: ...
ws. ....100 lb	2.25	: 2.50	Bbls., c/l ws. .... lb	...	: .07%	dra. .... lb	...	: .35
Imported, spot. ....100 lb	2.20	: 2.50	Bbls., c/l ws.... lb	...	: .07%	50 lb crocks ..... lb	.45	: .48
Comm'l., 1/4% iron, bgs. c/l	...	: 1.40	Gray 250 lb bbls. ws.... lb	...	: .08%	Sol'n, 130 lb carboys..... lb	...	: .11
ws. ....East 100 lb	...	: 1.40	Bbls., c/l ws.... lb	...	: .08%	Oxide, 500 lb bbls. .... lb	.08%	: .09
Cont. bgs. c/l ws. E.100 lb	...	: 1.40	Imp. wh. 600 lb cases spot. lb	...	: .06%	Salt, dom. 500 lb bbls. .... lb	.24	: .25
Bags, c/l ws. W....100 lb	...	: 1.35	Gray, 600 lb cases spot. lb	...	: .07%	Imp., NY ..... lb	.19	: .20
Bbls., c/l ws. East.100 lb	...	: 1.55	Lump, 500 lb cases spot. lb	.14	: .15	Sulfuret, golden 500 lb bbls.... lb	...	: .21
Bulk, c/l cont. ws. E.100 lb	...	: ...	Icthyolate, as to brand.... lb	4.25	: 5.00	336 lb kegs ..... lb	...	: .19
Amidol, (see Diaminophenol)	...	: ...	Iodide, USP, 25 lb jars.... lb	...	: 5.20	Crimson, 500 lb bbls.... lb	...	: .38
Amidopyrine, 10 lb boxes..... lb	4.50	: 4.65	Lactate, 500 lb bbls.... lb	.15	: .16	336 lb kegs ..... lb	...	: .36
1 lb cartons, 10 lb ..... lb	...	: ...	Nitrate, tech. crys. 225 lb bbls lb	...	: ...	Red, 500 lb bbls.... lb	...	: .45
Ammonioazobenzene, 110 lb kegs.... lb	...	: 1.15	Refined Crystals, bbls.... lb	.18	: .20	336 lb kegs ..... lb	...	: .42
			CP gran. 100 lb kegs.... lb	.35	: .37	Tartrilate, 500 lb bbls.... lb	...	: .45
			Oxalate, pure, 100 lb kegs.... lb	.40	: .42	Antipyrine, USP, 100 lb cases.... lb	2.15	: 2.25
						Apomorphine Hydrochloride, 1/4 oz. via.oz	19.10	: 19.35
						Arecoline Hydrobromide, 1 oz. vial. oz	6.50	: 8.07
						Argols, red powd. 350 lb bbls.... lb	.06%	: .07



## CHLORIDE OF LIME

Glauber Salts  
Tannic Acid  
Sodium Sulphide  
Potato Starch  
Textile Oils

Carbon Tetrachloride  
Peroxide of Hydrogen  
Caustic Potash  
Carbonate of Potash  
Sal Ammoniac  
Peroxide Sodium

Prussiate of Soda  
Epsom Salts  
Nitrite of Soda  
Bichromate of Soda  
Lead Acetate

**EUGENE SUTER & CO., Inc.**  
160 BROADWAY NEW YORK

Importers and Exporters of Industrial Chemicals

Manufacturers Agents

BASLE

HAMBURG



Cable Address: GENESUTER



## Ortho-Toluidine

**P**RECISE chemical control in the manufacture of du Pont Ortho-Toluidine insures a quality that is unsurpassed. The purity ranges well above 99 per cent; the difference being mainly para-toluidine.

This fact, together with the complete absence of tarry residues, makes du Pont Ortho-Toluidine particularly desirable for use in the manufacture of dyestuffs, and as an ore flotation agent.



*We also offer:*

Dinitrotoluene  
Meta-Tolylenediamine  
Mixed-Toluidines  
Para-Nitrotoluene  
Para-Toluidine  
Tolidine (Base)

**E. I. DU PONT DE NEMOURS & COMPANY, Incorporated,**

*Dyestuffs Department, Sales Division,*

WILMINGTON, DELAWARE

8 Thomas St., New York, N. Y.

# The Name Associated With **"Roche"** Fine Chemicals and Alkaloids of Rare Quality



Aconitine and Salts  
Amidopyrine  
Antipyrine  
Apomorphine Hydrochloride  
Arecoline Hydrobromide  
Atropine and Salts  
Berberine and Salts  
Brucine and Salts  
Caffeine and Salts  
Cocaine and Salts  
Codeine and Salts  
Colchicine Alkaloid, U. S. P.  
Colchicine Salicylate  
Creosote, U. S. P.  
Creosote Carbonate

Cumarin  
Diacetylmorphine  
Alkaloid and Hydrochloride  
Digitalin Pure  
Duboisine Sulphate  
Emetine and Salts  
Eserine and Salts  
Guaiacol Liquid  
Guaiacol Carbonate  
Homatropine and Salts  
Hydrastine and Salts  
Hydrastinine Hydrochloride  
Hyoscine Hydrobromide  
Hyoscyamine and Salts  
Morphine and Salts  
Phenolphthalein

Pilocarpine and Salts  
Potassium Guaiacol  
Sulphonate "Alta" Brand  
Salicin  
Saponin Purified  
Scarlet Red Medicinal  
Genuine "Biebrich"  
Silver Proteinate  
Sodium Cacodylate  
Sparteine Sulphate  
Strophanthin  
Strychnine and Salts  
Theobromine and Salts  
Veratrine and Salts  
Yohimbin Hydrochloride

**THE HOFFMANN-LA ROCHE CHEMICAL WORKS NEW YORK**

## Chemicals

Arsenic, metal, 220 lb kegs.....lb ... : .45			Benzidine Base, dry 250 lb bbls. lb ... : .84			BISMUTH—(Continued)		
Red, 224 lb kegs cases.....lb ... : .15 : .15%			10 bbl. lots .....lb ... : .80 : .82			Subiodide, 5 lb lots.....lb ... : 4.70		
White, 550 lb bbls., NY.....lb ... : .12% : .13			Benzidine Sulfate, paste 350 lb			Subnitrate, USP, 250 lb bbls.....lb ... : 2.90		
Asbestos.....ton 10.00 : 18.00			bbls. ....lb ... : .70 : .72			Second Hands, bbls. or less lb ... : 2.80		
Aspirin, see Acid Acetylsalicylic			Benzol, see Benzene			Cones, 1 lb bot.....lb ... : 3.95		
Atropine, Alk. USP, 1 oz. vial.....oz 5.00 : 5.57			Benzonaphthol, 5 lb boxes.....lb 3.50 : 3.60			Subsalicylate, USP, 175 bbls.....lb ... : 3.10		
Sulfate, 5 oz. cans.....oz ... : 3.00			Benzoyl Chloride, 500 lb drs.....lb ... : 1.00			Tannate, 1 lb bot.....lb ... : 2.75		
Single ounce ..... : 3.17			Benzyl Acetate, 100 lb chys.....lb 1.40 : 1.50			above on basis 25 lb lots.		
BARIUM BINOXIDE, see Barium dioxide			Alcohol, 5 lb bot.....lb 1.60 : 1.70			Smaller lots at an advance.		
Carbonate, precip., 800 lb bbls.			Benzonate, 5 lb bot.....lb 1.50 : 1.60			Blanc Fixe, dry 400 lb bbls. wks. ton 75.00 : 80.00		
wks. ....ton 68.00 : 70.00			Benzoin, 5 lb bot.....lb 1.50 : 1.60			Imported, bbls. ....ton 70.00 : 72.00		
Precip., 200 lb bgs., wks. ....ton 68.00 : 70.00			Medicinal PFC .....lb 1.75 : 1.85			Paste, 650 lb bbls. ....ton 50.00 : 55.00		
Imports, bbls., spot.....ton 63.00 : 65.00			Chloride, 95% tech. 925 lb drs. lb ... : .25			BLEACHING POWDER, 700 lb drs.		
Chloride, 800 lb bbls., wks. ....ton 80.00 : 82.00			100 lb chys. ....lb .25 : .30			c/l wks. ....100 lb ... : 1.50		
200 lb bgs. wks. ....ton ... : 80.00			Redistil, 100 lb chys. ....lb .40 : .45			Drums 1c/l ex-warehouse.....100 lb 2.00 : 2.25		
Import, bbls., spot.....ton 82.00 : 83.00			Formate, 1 lb bot.....lb 4.00 : 4.25			Contract, c/l wks. ....100 lb ... : 1.50		
Dioxide, 88% 600 lb drs. ....lb .17 : .18			Berberine Hydrochloride, 1 lb bot.....lb ... : 22.50			Drums, 1c/l wks. ....100 lb 1.65 : 1.90		
Import, 83-85% 400 lb drs. lb ... : .13% : .15			Sulfate, acid or neut. 1 lb bot.....lb ... : 22.00			Imported, spot .....100 lb ... : ...		
Hydrate, 500 lb bbls. ....lb .05 : .05%			ETA-NAPHTHOL, 350 lb bbls. wks. lb ... : .26			Blue Ointment, see Mercury		
Iodide, 5 lb box.....lb ... : 5.15			Carlots, wks. ....lb .34 : .35			Mans, see Mercury		
Nitrate, 700 lb casks.....lb ... : .10			Sublimed .....lb .55 : .60			Bone Ash, 100 lb kegs.....lb ... : .08		
Import casks .....lb .08% : .08%			Beta-Naphthylamine, tech. 200 lb			Black, 200 lb bbls. ....lb .06 : .08		
Sulfocyanide 400 lb bbls. ....lb ... : .35			bbls. ....lb .65 : .67			Borax, USP, crys. 400 lb bbls. lb ... : .05% : .06		
Barytes, floated 350 lb bbls. ....ton 33.50 : 35.00			Sublimed, 200 lb bbls. ....lb ... : 1.35			Powdered, USP, 300 lb bbls. lb ... : .05% : .06		
Bay Rum, Porto Rican, genuine			Bichloride Mercury, see Mercury Bichloride			Kegs, USP, 100-150 lb .....lb .06 : .08%		
Denat. salicy. acid or tartar emetic			BISMUTH metal, 150 lb cases.....lb 2.50 : 2.60			Bordeaux Mixture, powd. bbls. ....lb .12 : .15		
45 gal. bbls. ....gal 1.50 : 1.60			Second Hands .....lb 2.50 : 2.60			Paste, bbls. ....lb .08 : .10		
Denat. quinoline sulf. 45 gal.			Ammon. Citrate, USP 5 lb bxs. lb ... : 5.75			Borneol, 1 lb bot.....lb ... : 3.50		
bbls. ....gal 1.50 : 1.60			Betanaphtholate, 5 lb bxs. ....lb ... : 3.35			Bromide, see potas. bromide, etc.		
Domestic synthetic, 50 gal.			Citrate, USP 5 lb bxs. ....lb ... : 3.15			Bromine, bot. in 60 lb cs. wks. ....lb ... : .29		
bbls. ....gal .90 : 1.00			Nitrate, 25 lb jars.....lb ... : 2.00			Bromobenzene, 600 lb drums.....lb .40 : .42		
St. Thomas			Oxychloride, 250 bbls. ....lb ... : 5.50			Bromoforn, USP 5 lb bot 50 lb cs. lb ... : 1.90		
Denat. salicy. acid or tartar			Phenolsulfonate, 5 lb cans.....lb ... : 3.20			Rucine Sulfate, 100 ozs.....oz ... : .30		
emetic, 50 gal. bbls. ....gal 1.20 : 1.30			Salicylate, 250 bbls. ....lb ... : 3.00			Butter of Antimony, see Antimony Chloride		
Benzaldehyde, tech. 945 lb drs.			Subcarbonate, USP, 250 bbls. ....lb ... : 3.40			CADMIUM, metal 100 lb bxs.....lb 1.20 : 1.35		
wks. ....lb .75 : .80			X-Ray diag. 1 lb bot.....lb ... : 3.80			Bromide, 50 lb cases jars.....lb ... : 1.10		
USP, 40 lb chys. ....lb 1.80 : 1.90			Subgallate, USP, 175 lb bbls. ....lb ... : 3.50			Iodide, 10 lb bot.....lb ... : 4.45		
PFC, 40 lb chys. ....lb 1.60 : 1.75						Sulfide, cs. ....lb 1.50 : 1.60		
BENZENE, 90% 8000 gal. tanks								
wks. ....gal ... : .23								
110 gal. drs. wks. ....gal ... : .28								
Pure, Tanks, wks. ....gal .24 : .25								
110 gal. drs. wks. ....gal .29 : .30								

# "Baker's Analyzed"



## C. P. ACIDS AND AMMONIA

In 10 gallon carboys and in 1/2 gallon bottles packed 10 bottles to standard case.

Immediate truck deliveries from warehouse stocks in Birmingham, Ala., Boston, Buffalo, Chicago, Cincinnati, O. New York City, Philadelphia.

### J. T. BAKER CHEMICAL COMPANY

Phillipsburg, N. J.

New York Representative: H. B. PRIOR

17 East 42nd Street

Phone: Vanderbilt 9490

The reliable quality of Baker's Analyzed Chemicals and Acids has led to their adoption wherever the highest value is placed on scientific accuracy.

#### Hydrochloric Acid

In carboys net weight 115 lbs.  
In standard cases 10 6-lb. bottles.

#### Nitric Acid

In carboys net weight 135 lbs.  
In standard cases 10 7-lb. bottles.

#### Sulphuric Acid

In carboys net weight 180 lbs.  
In standard cases 10 9-lb. bottles.

#### Ammonia

In carboys net weight 85 lbs.  
In standard cases 10 4-lb. bottles.





# GRASSELLI GRADE

*A Standard Held High for 85 Years*

## ZINC OXIDE Tomahawk Brand

This 35% leaded brand is uniformly consistent, permitting positive formulae standardization.

## LITHOPONE Brilliant white; highly resistant to exposure; neutral; opaque.



## ZINC OXIDE Snow Cap Brand

This low lead content pigment (5%) is noted for the excellence of the results it gives.

*The Grasselli Chemical Company*  
Established 1839  
CLEVELAND, O.

Albany  
Birmingham  
Boston

Chicago  
Cincinnati  
Cleveland

Detroit  
Milwaukee

New Haven  
New York

New Orleans  
Philadelphia

Paterson  
St. Louis  
St. Paul

# ACETIC ACID

(All Grades)

THE  
CLEVELAND-CLIFFS IRON COMPANY  
UNION TRUST BUILDING  
CLEVELAND, OHIO

## Chemicals

<b>CAFFEINE ALK, USP 5lb cans..lb</b>			4.00	: 4.25	<b>CAMPHER, Amer. ref. \$50lb</b>		
Second Hands .....	lb			: 3.75	bbis. ....	lb	: .93
Hydrochloride, 1lb bot.....	lb	7.12	: 7.32		2 1/2 lb slabs, 100lb cs.....	lb	: .94
Sulfate, 1lb bot.....	lb		: 3.50		1lb cakes, 100lb cs.....	lb	: .94 1/2
Citrate, 25lb cans.....	lb	3.00	: 3.10		1 oz. tab., 1lb ctms. ....	lb	: .98 1/2
Hydrobromide, 1lb bot.....	lb		: 4.75		100lb cs. ....	lb	: .99
<b>CALCIUM Acetate, 150lb bgs. c/l</b>					100lb cs. ....	lb	: .99
100lb .....	lb		: 4.00		Jap. ref. 2 1/2 lb slabs, 100lb	lb	: .78
Arsenate, 100lb bbis. c/l wks. lb		.11 1/2	: .14		cs. ....	lb	: .79
Bromide, 100lb cs.....	lb		: .44		1 oz. tab., 100lb cs. 1lb.	lb	: .98
Carbide, 220lb dr. c/l wks..lb			: .04 1/2		ctms. ....	lb	: .98
Drums lc/l wks.....	lb		: .05		1/2 oz. tab., 100lb cs., 1lb	lb	: 1.00
Carbonate, tech. 100lb bgs					ctms. ....	lb	: 1.00
c/l .....	lb	1.00	: 1.10		Chinese ref. 2 1/2 lb slabs 100lb	lb	: .58
USP, precip. 175lb bbis...lb			: .04		cs. ....	lb	: .60
Chloride, solid, 650lb drs. c/l			: 24.50		Camphor, Monobrom., 100lb cs..lb	lb	: 1.75
f.a.b. NY .....	ton	18.00	: 20.00		gal. ....	gal	: .82
Imp. ....	ton		: 20.00		Carbanol, 250lb bbis.....	lb	: .50
Gran., 350lb drs. c/l f.a.b.			: 30.50		Carbon Bisulfide, 500lb dr. lc/l NY	lb	: .04 1/2
NY .....	ton		: 30.50		c/l drums, NY.....	lb	: .06
Flake 330lb drs. c/l f.a.b.			: 30.50		Carbon Black, 12 1/2 lb bgs. wks. lb	lb	: .11
NY .....	ton		: 30.50		Carbon Tetrachloride, 1400lb drs	lb	: .10
Anhyd., 350lb drs. f.a.b. NY..lb		.13	: .20		NY .....	lb	: .10 1/2
Glycerophosphate, 250lb bbis..lb		1.50	: 1.60		Drums, c/l NY.....	lb	: .09 1/2
Hydrate, (see Lime) .....	lb		: .60		700lb drs. single NY.....	lb	: .10 1/2
Hypophosphite, USP, 25lb cans lb		.60	: .65		Caroline, No. 40 5lb boxes.....	lb	: 4.75
Iodide, 5lb bot.....	lb		: 4.35		Casein, edib., 100lb kg.....	lb	: .40
Lactate, tech. 500lb bbis.....	lb		: .12 1/2		Technical, 200lb bbis.....	lb	: .12 1/2
U.S.P. ....	lb	.50	: .60		Castoreum, 1lb boxes.....	lb	: 4.00
Nitrate, 220lb bbis. c/l NY ton			: 40.00		Castor Oil, USP 50 gal. bbis...lb	lb	: .15
Phosphate, tech. 250lb bbis. lb		.09	: .10		Caust., 80lb 2 tins.....	lb	: .16
Phosphate, precip. tribasic 200					Tech., see Fixed Oils		
lb bbis. wks.....	lb	.11	: .12		Caustic Potash, see potash, caustic		
Phosphate, mono, 325lb bbis. lb		.07	: .08		Soda, see soda, caustic		
Sulfocarbamate, 100lb kgs....lb		.55	: .57		Cellulose Acetate, 100lb cases..lb	lb	: 1.75
Calomel, see Mercury					Cerium Oxalate, USP 100lb kg. lb	lb	: .43
<b>Chalk, drop 175lb bbis.....lb</b>							
Precip. light 250lb csks.....lb			: .03 1/2				
Precip. heavy 500lb csks.....lb			: .04 1/2				
Bulk .....	ton	5.00	: 8.00				
Precip. English, 7lb bags.....lb			: .07 1/2				
Charcoal, Bone, see bone black							
Wood, powd. 100lb bbl.....lb		.04	: .05				
Willow, powd. 100lb bbl.....lb		.06	: .07				
China Clay, Dom., crude.....ton		6.00	: 8.00				
Washed & Ground .....	ton	7.50	: 12.00				
Imp., Filler Clay .....	ton	14.50	: 16.00				
Coating .....	ton		: 25.00				
Chloral Hydrate, USP 100lb drs. lb		.70	: .75				
25lb jars .....	lb	.78	: .80				
Chloride, 140lb drs.....	lb		: .86				
Chloramine-T, 5lb bot.....lb		1.25	: 2.50				
Chloroacetic, 5lb bot.....lb		.55	: .75				
Chlorohydrin, Ethylene anhyd, 600lb							
dra. ....	lb	.75	: .85				
40% soln. 100lb cys.....lb		.25	: .30				
<b>CHLORINE, Liquid 2000lb cyl.</b>							
c/l wks. ....	lb		: .04 1/2				
Tank car lots, wks. Contract..lb			: .03 1/2				
100lb cyl. c/l.....	lb		: .04 1/2				
100lb cyl. lc/l wks.....lb			: .05				
100lb cyl. lc/l, ex-warehouse..lb		.06	: .08				
Chlorobenzene, mono. 1000lb drs.							
wks. ....	lb	.10	: .11				
Drs. c/l wks. ....	lb	.08	: .08 1/2				
Tank car lots wks.....	lb		: .08				
CHLOROFORM, USP 50lb drs..lb			: .35				
Second Hands, 650lb drs.....	lb	.35	: .34				
Technical, 850lb drums.....	lb	.32	: .33				
Chromium Acetate, 20° soln. 400lb							
bbis. ....	lb	.08	: .10				
Fluoride, Powd. 400lb bbis...lb			: .80				
Soln. 400lb bbis.....	lb		: .80				
Sulfate, 400lb bbis.....	lb	.07	: .09				
Chrysarobin, USP, 5lb cans.....lb		1.00	: 2.15				
Cinchonidin alk., powd. 100 oz. tinsos			: .70				
Crystal .....	oz		: .75				
Sulfate, 100oz. tins .....	oz		: .50				

# PHOSPHORIC ACID

OF U. S. P. QUALITY  
IN ALL STRENGTHS

AND

ALL HYPOPHOSPHITE SALTS

AT LOWEST PRICES

**MALLINCKRODT  
CHEMICAL WORKS**

St. Louis Montreal Philadelphia New York

*Liquid Chlorine* **EBC**

A Ray  
of Sunshine  
for the Textile Operator

Mill executives who are anxious to replace the cumbersome handling and low efficiency of Chloride of Lime should give E B G Liquid Chlorine an opportunity to demonstrate its superior qualities.

Those who value service founded upon competent organization and excellent facilities will find an added incentive in giving E B G Liquid Chlorine a trial.

"Liquid Chlorine in Textile Bleaching" was written for mill executives. Your copy gladly sent on request.

**Electro Bleaching Gas Co.**  
PIONEER MANUFACTURERS OF LIQUID CHLORINE

Plant: NIAGARA FALLS, N.Y.  
Main Office, 9 East 41st Street, New York

## Chemicals

Cinchonine alk., pwt. 1000z. tinous	...	: 38	COPPER, metal electrolytic c/l	...	: 12.75	Diethyl Sulfate tech. 50gal. drs. D	: 30	: 35
Crystal	...	: 43	NY	100 lb	12.87	CP drums	: 40	: 50
Sulfate, 100 oz. tins.	...	: 25	Lake, c/l NY	100 lb	12.50	Digitalin, Pure, 1 oz. vial.	10.00	: 10.25
Citrine Ointment, see Mercury	...		Casting, c/l NY	100 lb	12.50	Dimethylaniline, 840 lb drs. wks. D	: 37	: 39
Coal Tar, Tks. & bbls., wks. gal	.06	: .08	Carbonate, 400 lb bbls.	...	: 17	Dimethylsulfate, 100 lb drs.	...	: 50
Cobalt metal, 100 lb kgs.	...	: 3.00	Chloride, 250 lb bbl.	...	: 25	Dinitrobenzene, 400 lb bbls.	: 18	: 19
Cobalt Oxide, 500 lb bbls.	...	: 2.10	Cyanide, 100 lb drs.	...	: 46	Dinitrochlorobenzene, 400 lb bbls.	: 19	: 20
10 lb tins, 200 lb cases.	...	: 2.35	Iodide, 5 lb bot.	...	: 5.65	Dinitronaphthalene, 350 lb bbls.	: 32	: 34
COCAINE alk., USP, 1 oz. vial.	...	: 10.00	Oxide, red 1000 lb bbls. ton lots	...	: 17	Dinitrophenol, 350 lb bbls.	...	: 40
Hydrochloride, USP—1 oz. vial.	...	: 7.07	Sub-Acetate, verd. 440 lb bbls.	...	: 23	Dinitrotoluene, 300 lb bbls.	: 18	: 19
25 ozs.	...	: 7.07	SULFATE, crys. 450 lb bbls. 1c/l	...	: 4.65	Dionin, see Morphine, Ethyl	...	
In 1/4 oz. vials.	...	: 7.50	spot	100 lb	4.50	Diphenylamine, 250 lb bbls.	: 48	: 50
In crystals, granular, powder,	...		Carlots, bbls. f.o.b. NY. 100 lb	4.50	: 4.65	Diphenylguanidine, 170 lb bbls.	: 1.05	: 1.15
or flaky crystals as desired.	...		Carlots, bbls. delivered. 100 lb	4.85	: 5.00	Dover's Powder, USP 5 lb tins.	: 2.20	: 2.30
Cocoa Butter, bulk, 200 lb bales.	.26	: .26 1/2	Imp. 550 lb cks.	4.50	: 5.00	Duboisine Sulfate, 1 oz. vial.	...	: 30.07
Fingers, cakes, etc. 12 lb bxs.	.34	: .35	Powdered, 350 lb 5 bbls.	5.75	: 6.00	EARTH, Diatomaceous, see Kieselguhr	...	
CODEIN alk., 1 oz. vis. 10 oz.	...	: 8.62	Copperas, bulk c/l wks.	...	: 16.00	Emetine alk., 15 gr. vis.	...	: 1.65
lots	...	: 8.62	200 lb bgs. c/l wks.	...	: 20.00	Hydchlide, USP 1 oz. vial.	18.00	: 19.00
Hydrobromide, 1 oz. vis, 10 oz.	...	: 6.92	400 lb bbls. c/l wks.	...	: 22.00	15 gr. vials	...	: .82
lots	...	: 6.92	Powdered, bbls.	1.90	: 2.00	EPSON SALT, tech. 300 lb bbls.	...	: 2.15
Hydrochloride, 1 oz. vis, 10 oz.	...	: 7.77	Sugar, 400 lb bbls.	1.50	: 1.75	NY	...	: 2.15
lots	...	: 7.77	Corn Syrup, 42 deg. 50 gal.	...	: 3.46	Bbls. c/l NY	...	: 2.00
Nitrate, 1 oz. vis, 10 oz. lots.	...	: 7.77	bbls.	...	: 3.51	100 lb bgs. c/l NY	...	: 1.80
Phosphate, 1 oz. vis, 10 oz.	...	: 6.67	43 deg. 50 gal. bbls.	...	: 3.51	Imp., 220 lb bgs. c/l	...	: 1.20
lots	...	: 6.67	44 deg. 50 gal. bbls.	...	: 3.58	NY	...	: 1.20
Salicylate, 1 oz. vis, 10 oz.	...	: 6.47	45 deg. 50 gal. bbls.	...	: 3.65	USP, 300 lb bbls, 10 bbls. 100 lb	...	: 2.50
lots	...	: 6.47	Corrosive Sublimate, see Mercury Bichloride	...		Carlots, bbls.	...	: 2.15
Sulfate, 1 oz. vis. 10 oz. lots.	...	: 6.92	Cotton Soluble, 100 lb bbls. wet. D	.40	: .42	Imported, 400 lb bbls.	...	: 2.00
Small Sizes, 1/4 oz. vials, 50c extra,	...		Coumarin, 25 lb tins.	3.85	: 4.00	100 lb kgs.	...	: 2.50
1/4 oz. 25c extra, singles 7c extra	...		Second Hands	3.85	: 4.00	Ergotin, Boujean. 1 lb jars.	6.00	: 6.35
per oz.—25 oz. lots, 10c oz. cheaper	...		CREAM TARTAR, USP, 300 lb	...	: .23	Eserine alk., 1 oz. vial.	...	: 24.07
than above. Less than 10 oz. 15c oz.	...		bbls.	...	: .23 1/2	Salicylate, USP 1 oz. vial.	...	: 16.07
higher than above.	...		Imp. powd. USP, 224 bbls.	.22	: .23 1/2	Sulfate, USP VIII, 1 oz. vial.	...	: 12.07
COD LIVER OIL, Norwegian, 30 gal.	22.50	: 23.00	Creosote, USP, 42 lb cys.	.40	: .42	ETHER, USP 55 lb drums.	...	: .13
bbls.	...	: 23.00	Carbonate, 1 lb bot. 25 lb	1.80	: 2.00	Anaesthesia, 55 lb drums.	...	: .16
Newfoundland, 30 gal. bbls.	...	: 23.00	Creosote Oil, 50 gal. drs.	.20	: .22	USP, 1850 55 lb drums.	...	: .38
Colchicine alk., USP 1 oz. vial.	...	: 15.07	Cresol, USP, 400 lb drums.	.23	: .26	Washed, 55 lb drums.	...	: .30
Salicylate, 1 oz. vial.	...	: 30.07	Cyanamide, bulk c/l wks. Amm. unit	...	: 2.25	Motor, 1 lb cans	...	: .37
Colloidal USP 30 lb drums.	...	: 22	DIAMINOPHENOL, 100 lb kgs.	...	: 3.80	Ether, Nitrous, 1 lb bot.	.92	: .95
Ethyl Benzyl Aniline, 300 lb drs.	...	: 1.30	Dianisidine, 100 lb kgs.	...	: 4.60	Ethyl Benzyl Aniline, 300 lb drs.	...	: 1.30
			Dichlorobenzene, 1000 lb drs.	.08	: .07			
			Diethylaniline, 850 lb drs.	.55	: .60			
			Diethyl Phthalate, 25 lb cans.	.55	: .65			
			1000 lb drs.	.45	: .50			



# Baker & Adamson Reagent Chemicals

## Standard Quality

Manufactured in Easton, Pa., since 1884

### GENERAL CHEMICAL COMPANY

40 Rector Street, New York

Baltimore  
Buffalo

Chicago  
Cleveland

Denver  
Easton

Philadelphia  
Pittsburgh

Providence  
San Francisco

The Nichols Chemical Co., Ltd., Montreal

Cable Address: Lycorgus, N. Y.



## Chemicals

Ethyl Acetate, 95%, 50 gal. dr. gal.	1.25	: 1.25	Gelatin, USP silver bl. 100 lb. cs. D	.85	: .90	Hydrastinine Hydrochloride, USP 15 gr.			
85-90% Ester, 50 gal. dr. gal.	...	: 1.15	Gold Label, 100 lb. cases.....D	...	: ...	vials.....vial	...	: 2.40	
Carious, drums.....gal	...	: 1.10	Technical, 100 lb. cs.....D	.80	: .85	Hydrobenzene 100 lb. kegs.....D	1.30	: 1.35	
Tanks Cars.....gal	1.87	: 2.00	CLAUSER'S SALT, tech. 300 lb. bags			bbls.....bbl	...	: .10	
Refined, drums.....gal	...	: .40	le/l wks.....100 lb	1.15	: 1.25	100 vol. 145 lb chys.....D	...	: .35	
Bromide, 115 lb drs.....D	...	: .35	350 lb bbls. c/l wks.....100 lb	1.30	: 1.35	USP Soln. 375 lb bbls.....D	.05	: .05 1/4	
Chloride, 15 lb cys.....D	...	: .25	Bbls. le/l wks.....100 lb	1.80	: 2.00	100 vol. 145 lb chys.....D	...	: .40	
Methyl Ketone, 50 gal. drums. D	.25	: .25 1/4	Imported, bbls. spot.....100 lb	.90	: 1.00	USP bot. 4 oz. cases.....gross	8.00	: 8.25	
Morphine, see Morphine, Ethyl	...	: ...	USP, 300 lb bbls. imp. sp.....100 lb	...	: 1.25	Bot. 8 oz. cases.....gross	11.75	: 12.00	
Ethylene Bromide, 600 lb drs.....D	...	: .60	USP, 300 lb bbls. dom. sp.....100 lb	...	: 1.75	Bot. 16 oz. cases.....gross	19.75	: 20.00	
Glycol.....D	.65	: 1.00	Calced, see Sodium Sulfate	...	: 1.40	Hyocyanine Alk. Cryst., 1 oz. vial. os	...	: 35.00	
Chlorhydrin. anhyd. 50 gal. dr. D	.75	: .85	Glucose, (Grape Sugar) dry, 100			Hyocine Hydrobrom. USP 1 oz.	...	: 10.57	
40% Solution, 50 gal. bbls. D	.25	: .30	70° bags, c/l NY.....100 lb	3.49	: 3.74	vial.....oz	...	: 10.00	
Dichloride, 50 gal. drs.....D	.30	: .25	Syrup, Dm. & bbls. c/l NY 100 lb	3.25	: 3.51	Hyocyanine Alk. Cryst., 1 oz. vial. os	...	: 25.07	
Ethylideneaniline.....D	...	: .70	le/l NY.....100 lb	3.36	: 3.61	Alkaloid, Amorphous, 1 oz. vial. os	...	: 65.07	
Eucalyptol, 25 lb cans.....D	.80	: .85	GLUE, pure white, bbls.....D	.30	: .35	Hydrobromide, USP 1 oz. vial. os	...	: 40.07	
Feldspar, bulk.....ton	30.00	: 25.00	Medium white, bbls.....D	.35	: .30	Sulfate, 1 oz. vial.....oz	...	: 25.07	
FERRIC CHLORIDE, tech. crys.			French, bbls.....D	.18	: .25	INDOL, C. P. 1 oz. bot.....oz	6.00	: 6.50	
475 lb bbls.....D	...	: .08	High Grade, bbls.....D	.35	: .40	Iodides, see Potass. Iodide, etc.			
Imported.....D	...	: .07 1/4	Bone, regular, bbls.....D	.10	: .12	IODINE, crude, 200 lb kegs.....D	3.02	: 4.01	
USP, crys. 100 lb kegs.....D	...	: .08	Fish, bbls.....gal	1.50	: 1.75	Resublimed, 10 lb jars.....D	...	: 4.40	
Imported.....D	...	: .08 1/4	GLYCERIN, C. P. 550 lb drums. D	.15	: .17	Tincture, USP, 50 gal. bbls. gal	4.10	: 4.25	
Nest. Sol'n 40° 140 lb chys. D	...	: .08 1/4	Cans, 50 lb.....D	.15	: .15 1/4	Carboys.....D	4.30	: 4.40	
48°, 140 chys.....D	...	: .08 1/4	Dynamite, 100 lb drs.....D	.15	: .15 1/4	Iodoform, powd. 10 lb bot.....D	...	: 6.00	
USP Sol'n 125 lb chys.....D	...	: .08 1/4	Saponification, tanks.....D	.12 1/4	: .12 1/4	Crystals, 10 lb bot.....D	...	: 7.00	
Ferrous Chloride, crys. tech.			Soap, Lye tanks.....D	.10 1/4	: .11	Iridium, metal 10 oz lots.....oz	...	: 250.00	
475 lb bbls.....D	.04	: .06 1/4	Goa Powder, see chrysarobin			Iron, metal by hydrogen 1 lb bot. D	.80	: 1.00	
Ferrous Sulfide, 1000 lb bbls. 100 lb	2.50	: 3.00	Graphite, crude 220 lb bags.....ton	15.00	: 35.00	IRON & AMM. CITRATE, USP 25 lb			
Flake White, see lead, white			Flake, 500 lb bbls.....D	.05	: .09	cans.....D	...	: .84	
Fluorspar, 95% 220 lb bps. oz	...	: 25.00	Ground, lump, bbls.....D	.04	: .05	Green scales, 25 lb cans.....D	...	: .84	
90% bps.....ton	...	: 25.50	Gualacol Liquid, USP, 25 lb cans. D	2.45	: 2.60	Cacodylate, 10 lb bot.....D	6.50	: 6.75	
98% bps.....ton	...	: 25.00	Benzoate, 1 lb bot.....D	...	: 18.00	Citrate, USP VIII 25 lb cans. D	.79	: .81	
FORMALDEHYDE, USP 400 lb bbls.			Carbonate, 5 lb boxes.....D	4.25	: 4.50	Chloride, see ferric or ferrous			
c/l wks.....D	...	: .11	HAARLEM OIL, Dom. 6 gr. c. gross	...	: 3.50	Hypophosphite, 5 lb cans.....D	1.50	: 1.60	
Carboys, 100 lb le/l wks.....D	.12	: .13 1/4	Imported, 5 gr. cases.....gross	5.15	: 5.25	Syrup, USP VIII.....D	...	: .30	
Bbls., 400 lb le/l wks.....D	.11 1/4	: .11 1/4	Halaxons, 5 lb bot.....D	2.75	: 3.25	Iodide, 1 lb bot.....D	...	: 4.20	
Second Hands.....D	...	: .11	Hexamethylenetetramine, USP			Syrup, USP 5 lb bot.....D	.35	: .38	
Fumil Flour.....D	...	: .04	100 lb drums.....D	.75	: .77 1/4	Nitrate, kegs.....D	.09	: .10	
Formandine.....D	...	: .50	Imported.....D	.68	: .70	Com'l, bbls.....100 lb	2.75	: 3.25	
Fuller's Earth, 200 lb bps. c/l			Rubber Makers, Impalp. Pd.	.82 1/4	: .85	Oxalate scales 25 lb cans.....D	.85	: .88	
mines.....ton	15.00	: 17.00	Homatropine Hydrobrom. USP 1 oz.			Oxide red, Spanish.....D	.03 1/4	: .07 1/4	
Imported, 230 lb bags NY.....ton	35.00	: 40.00	vial.....oz	...	: 16.00	& Ammon. Oxalate 25 lb bxs. D	.47	: .50	
Fuel Oil, refined, 100 gal. dr. gal	...	: ...	Five oz., 1 oz. vials.....oz	...	: 15.00	& Potassium Oxalate, 25 lb bxs. D	.45	: .47	
Crude, 100 gal. drum.....gal	...	: 4.30	Hydrastine Alk., USP, 1 oz. vial. os	...	: 15.57	& Sodium Oxalate, 25 lb bxs. D	.41	: .43	
G SALT, paste 350 lb bbls. basis			Hydrochloride, USP, 1 oz. vial.....oz	...	: 14.57	Phosphate, USP 25 lb cans.....D	.79	: .81	
100%.....D	.60	: .65	Sulfate, 1 oz. vial.....oz	...	: 17.07	Pyrophosphate, USP 25 lb			
						cans.....D	.84	: .86	

The  
Norvell Chemical  
Corporation

WE are headquarters, and offer in highest purity, strength and efficiency the following products:

Acid Benzoic      Formaldehyde  
Sodium Benzoate      Silver Salts  
Benzyl Chloride      Creosote  
Mercurials      Creosote Carbonate  
Glycerophosphates  
Hexamethylenamine

For prices and particulars apply to  
New York Office      99 John Street  
Chicago Office, 180 No. Market Street

# HF & G

## GLYCERINE

The HARSHAW, FULLER  
& GOODWIN CO.  
Hanna Building, Cleveland

New York  
Philadelphia  
Chicago

Cincinnati  
St. Louis  
Los Angeles

## Chemicals

JALAP RESIN, lump 5 lb tins...D	3.25	: 3.35	Linalcol, 5 lb bot.....D	5.50	: 5.50	Manganese—(continued)		
Powd. tins.....D	3.40	: 3.50	Litharge, see lead oxide			Glycerophosphate, 5 lb tins....D	...	: 2.85
Kapoc, 160 lb double bales....D	.28	: .30	Lithium Carb. USP, 100 lb kgs..D	1.50	: 1.60	Hypophos. USP VIII 5 lb cans..D	...	: 1.65
KIESELGUHR, 90 lb bags NY...ton	60.00	: 70.00	Bromide, 100 lb cs.....D	1.75	: 1.85	Iodide, 1 lb bot.....D	...	: 6.40
LANOLIN, see Adeps Lanæ			Citrate, USP 100 lb kgs....D	1.70	: 1.75	Ore, bulk NY.....unit	.40	: .45
LEAD, metal c/l NY.....100 lb	8.75	: 9.00	Iodide, 5 lb bot.....D	...	: 5.40	Sulfate, 600 lb casks NY....D	.10	: .11
Acetate, white crystals 500 lb			Lithopone, 400 lb bbls, lc/l wks..D	...	: .07%	Marble Flour, bulk.....ton	10.00	: 12.00
bbls. white.....D	...	: .14%	Bbls. c/l wks.....D	...	: .06%	See also Calcium Carbonate		
100 to 250 lb kgs. wks..D	...	: .14%	Imported, 400 lb bbls.....D	...	: .06%	MENTHOL, USP, 60 lb cases....D	...	: 12.75
White, broken, bbls, wks.100 lb	...	: 13.65	Litmus Cubes.....D	.90	: 1.00	Less cases, 5 lb tins.....D	...	: 13.25
White, gran., bbls, wks.100 lb	...	: 13.90	MAGNESITE, crude.....ton	...	: 15.00	MERCURY, metal 75 lb flask..flask	60.00	: 61.00
White, powd., bbls, wks....D	...	: .15	Calcined, 500 lb bbls.....ton	...	: 55.00	Less Flasks, 5 lb jugs....D	1.02	: 1.04
Kegs, wks.....D	...	: .15%	Magnesium mtl, sticks 100 lb cs..D	1.25	: 1.30	Bichloride, cryst. 25 lb bxs...D	...	: 1.02
Brown, broken, bbls, wks....D	...	: .13	Carb. tech. 70 lb bags NY....D	.08	: .08%	Gran. powd., 200 lb kgs..D	...	: .87
USP, 100 lb kgs.....D	...	: .17%	75 lb bbls. NY.....D	.08%	: .09	Bisulfate, 25 lb boxes.....D	...	: .86
Arsenate, 100 lb bbls. lc/l wks..D	.30	: .35	USP, 60 lb bbls.....D	.10	: .11	Blue Mass, 25 lb boxes.....D	...	: .62
Bbls. c/l wks.....D	.19%	: .30	USP, blocks 100 lb cs. 1, 2, 4	...	: .19	Powdered, 25 lb boxes.....D	...	: .64
Paste, 600 lb bbls.....D	.12	: .13	cs.....D	...	: .23	Blue Ointment, USP 25 lb cans	...	: .77
Iodide, USP VIII 5 lb bot....D	3.20	: 3.40	Chloride, fused 575 lb drs. c/l	...	: \$4.00	50%.....D	...	: .57
Nitrate, 500 lb bbls. wks....D	...	: .12	wks.....ton	...	: \$6.00	USP, dilute 25 lb cans 30%..D	...	: .67
Oxide, lithg., 500 lb bbls..100 lb	11.15	: 11.40	Flaked, 350 lb drs. wks c/l ton	...	: 26.00	33 1/3% Mercury.....D	...	: 1.10
100 lb kgs, wks.....D	...	: .11%	Imp., fused 900 lb bbls NY ton	26.00	: 28.00	Citrine Ointment 25 lb jars..D	...	: .50
Oxide, red 500 lb bbls, wks..D	11.65	: 11.90	Fluocilicate, crystals 400 lb bbls	...	: .12	Iodide, green 25 lb jars....D	...	: 4.00
100 lb kgs wks.....D	...	: .11%	wks.....D	...	: .07	Red, USP 25 lb jars.....D	...	: 4.10
Peroxide, 100 lb drs.....D	...	: .26	30% soln. 500 lb bbls. wks..D	...	: .04	Yellow, USP VIII 25 lb jars..D	...	: 1.38
White, basic carb. 500 lb bbls	...	: .10	Soln. bbls. c/l wks....D	...	: 3.15	Red Precip. USP 25 lb bxs...D	...	: 1.48
wks.....D	...	: .10%	Glycerophosphate, 5 lb tins....D	...	: 1.15	Powder, USP 25 lb bxs.....D	...	: 1.49
Bbls. c/l wks.....D	...	: .09%	Hypophosphite, 5 lb cans....D	...	: .42	White Precip. USP 25 lb bxs..D	...	: 1.54
100 lb kgs wks.....D	...	: .09%	Oxide, USP light 100 lb bbls..D	...	: .50	Powder, USP 25 lb bxs.....D	...	: .63
White, sulfate 500 lb bbls. wks..D	.09%	: .09%	USP, heavy 250 lb bbls....D	...	: 2.15	With chalk, USP 25 lb bxs...D	...	: .78
Bbls. c/l wks.....D	...	: .09%	Peroxide, 5 lb cans.....D	...	: 2.25	Meta-Nitraniline.....D	.78	: .80
Licorice Ext. Mass, cases....D	.25	: .26	Salicylate, 100 lb kgs.....D	...	: .75	Meta-Nitro-para-Toluidine, 300 lb	...	: 2.20
Compound powder, bbls.....D	.11	: .15	Sulfate, see Epsum Salts			bbls.....D	...	: .95
Powdered.....D	.83	: .40	Manganese Chloride, 600 lb csk	...	: .09%	Meta-Phenylenediamine, 300 lb	...	: .93
Sticks, 1 cs 100 lb cases....D	.45	: .50	NY.....D	...	: .24	bbls.....D	...	: .82
LIME (Salts, see Calcium Salts)			Borate, 30%, 200 lb bbls....D	...	: .25	Meta-Toluylenediamine, 300 lb	...	: .90
Live, 325 lb bbls. ton lots, wks..D	...	: .01%	100 lb kgs.....D	...	: 80.00	bbls.....D	...	: .90
Single bbl. wks.....D	...	: .01%	Dioxide, 80-84% 900 lb bbls.	...	: 85.00			
Hydrated, 167 lb bbl, ton lots,	...	: .01%	NY.....ton	80.00	: 85.00			
wks.....D	...	: .01%	85-90%, 900 lb bbls. NY ton	85.00	: 90.00			
Single bbl. wks.....D	...	: .01%	Hydrated, precip. 100 lb kgs..D	.32	: .35			
Oyster Shell, 150 lb bbl. single..D	...	: .03%						
125 lb bag.....D	...	: .03%						
Sulfur, dry 200 lb drs. NY....D	.08	: .10						
Drs. c/l NY.....D	...	: .10%						
35° Soln. 50 gal. bbls. NY gal	.15	: .16						

## BETA-NAPHTHOL

DYESTUFFS AND INTERMEDIATES

CONSOLIDATED COLOR  
& CHEMICAL CO.CENTRAL DYESTUFF  
& CHEMICAL CO.

Reg. U. S. Pat. Off.

WILLIAMSBURG  
CHEMICAL CO.and other  
AMERICAN MANU-  
FACTURERS

Distributed by

H.A. METZ &amp; CO. Inc.

One Twenty-Two Hudson Street, New York City.

Boston

Philadelphia

Providence

Chicago

Charlotte

San Francisco

## Chemicals

<b>METHANOL (Wood Alcohol)</b>			<b>NAPHTHA, Solvent, 110 gal. dra.</b>			<b>PALLADIUM, metal 10 oz. lots. com</b>		
95%, tanks	gal	.85	Wks.	gal	.29	Pancreatin, USP 5 lb bot.	D	1.25 : 1.40
Drums, c/l	gal	.87	8000 gal. tank cars wks.	gal	.24	Papain, 10 lb bot. USP, Powd.	D	2.15 : 2.25
Drums, 1c/l	gal	.88	NAPHTHALENE, Flake, 175 lb bbls.			Crude, 150 lb cases.	D	1.85 : 1.90
97%, tanks	gal	.88	Wks.	D	.06 3/4	Paraffin, ref'd 200 lb cs. slabs		
Drums, c/l	gal	.90	Bbls. c/l wks.	D	.06	120-125 Deg. M. P.	D	.03 3/4 : .03 3/4
Drums, 1c/l	gal	.93	Bbls., second hands NY.	D	.06 3/4	125-130 Deg. M. P.	D	.04 : .04 3/4
Pure, Acetone free, tks.	gal	.90	Balls, 250 lb bbls. wks.	D	.07	130-135 Deg. M. P.	D	.04 : .04 3/4
Drums, c/l	gal	.92	Bbls., c/l wks.	D	.07 3/4	135-140 Deg. M. P.	D	.05 : .06 3/4
Drums, 1c/l	gal	.95	Bbls., second hands NY.	D	.07 3/4	Para-Aminocetanilid, 100 lb		
Bbls. incl. 5% higher			Crushed, chipped, bgs. wks.	D	.08 3/4	kegs	D	1.05 : 1.15
Methyl Acetone, 100 gal. drums. gal	1.07	1.10	Nickel Metal, electrolytic 100 lb			Para-Aminophenol, 100 lb kegs.	D	1.25 : 1.30
Tanks cars	gal	1.05	kegs	D	.30	Hydrochloride, 100 lb kegs.	D	1.40 : 1.50
Chloride, 90 lb cyl.	D	.50	Ingot, 100 lb kegs.	D	.32	Para-Dichlorobenzene, 150 lb bbls.		
Salicylate, USP, 50 lb cases.	D	.47	Salt, single 400 lb bbls. NY.	D	.11	Wks.	D	.17 : .20
500 lb drums	D	.45	Double, 400 lb bbls. NY.	D	.11	25-50 lb kegs	D	.18 : .23
Second Hands, cases.	D	.45	Oxide, 100 lb kegs NY.	D	.40	Paraaldehyde, 100 gal dra.	D	.35
Methylene Blue, tech. 100 lb kgs. D	1.00	1.50	Sulfate, 450 lb bbls.	D	.06 3/4	Paraformaldehyde, USP 100 lb cs. D		.50
USP, medicinal 5 lb cases.	D	2.25	Nitrate, 450 lb bbls.	D	.07	Para-Nitrocetanilid, 300 lb		
Methyl's Ketone, 225 lb bbls. D		3.75	Nitro Cabs, bulk wks.	ton	5.00 : 6.00	bbls.	D	.55 : .60
Milk, powd. 150 lb bbls.	D	.14	500 lb bbls.	ton	13.00 : 14.00	PARA-NITROANILINE, 300 lb bbls.		
Milk Sugar, see sugar of milk			Nitrobenzene, crude, 1000 lb dra.			Wks. ton	D	.68 : .73
Mineral Oil, see oil mineral			Wks.	D	.09	Para-Nitrochlorobenzene, 1300 lb dra.		
Mineral Rubber	ton	33.00 : 54.00	Redistilled, 1000 lb dra. Wks. D		.09 3/4 : .10 3/4	Wks.	D	.20 : .30
Monochlorobenzene, see chlorobenzene			Nitronaphthalene, 550 lb bbls. D		.20	Para-Nitro-ortho-Toluidine, 300 lb		
Monomethylamine, 900 lb dra. D		1.00	Nitrotoluene, mixed 1000 lb dra.		.14	bbls.	D	2.75 : 2.95
Monomethyl paramidophenol sulfate			Wks.	D	.15	Para-Nitrophenol, 135 lb bbls. D		.70 : .75
100 lb dra. D		4.00	Ochre	D	.03 3/4	Para-Nitrodimethylaniline, 120 lb		
MORPHINE Sulfate, USP 5 oz. tins			Oil Fuel, see Fuel Oil			bbls.	D	.95
10 oz.		6.25	OIL MINERAL, wh. 50 gal. bbls. gal	1.00	1.25	Para-Nitrotoluene, 350 lb bbls. D		.55 : .60
Acetate, 5 oz. tins 10 oz. lots. com		6.25	Orange Mineral, 800 lb cases NY. D		.15 3/4 : .16	Para-oxy-Benzaldehyde, 100 lb		
Hydrobromide, 5 oz. tins 10 oz. lots		6.25	500 lb bbls. NY. D		.18 3/4 : .19 3/4	kegs	D	1.50 : 1.60
Hydchloride, 5 oz. tins 10 oz. lots		6.25	Ortho-Aminophenol, 50 lb kegs. D		2.40 : 2.50	Para-Phenetidin, 500 lb dra. D		1.55 : 1.60
Disocetyl Alk., 1/4 oz. via. 10 oz.		10.20	Ortho-Arisidine, 100 lb dra. D		.06 : .08	Para-Phenylenediamine, 350 lb		
Hydchloride, 1/4 oz. via. 10 oz. via. 10		9.25	Ortho-Dichlorobenzene, 1000 lb dra.		.35 : .40	bbls.	D	.40 : .41
Ethyl Hydchloride, 1/4 oz. via. 10 oz.		10.45	Wks.	D	.10 : .11	Para-Toluene-Sulfonamide, 175 lb		
Small Sizes: 1/4 oz. vials, 50c extra;			Ortho-Nitrochlorobenzene, 1200 lb		.13 : .15	bbls.	D	.13 : .20
1/2 25c extra; single oz. via. 7c extra,			dra. Wks. D		3.00	Para-Toluidine, 350 lb kils. Wks. D		.25 : .30
over price for 5 oz. tins. 25 oz. lots in 5 oz. tins. 10c. or lower than above schedule. Less than 10 oz. lots 15c. or higher than above schedule.			Oxgall, USP 5 lb bot.					
Musk Ambrette, 1 lb cases. D	15.00	16.00						

# NITRATE POTASH

DOUBLE REFINED CRYSTALS  
GRANULATED OR POWDERED



**BATTILLE & RENWICK**

Estb. 1840

Incp. 1902

80 Maiden Lane, New York, N. Y.

# CRESOL U. S. P. CRESYLIC ACID PYRIDINE DENATURED ALCOHOL

SPOT STOCKS CARRIED

**INDUSTRIAL CHEMICAL CO.**

200 Fifth Avenue

NEW YORK



## Chemicals

<b>PARIS GREEN</b>			<b>Piperazine Hydrate, 1 lb bot....</b>			16.00	<b>POTASSIUM--(Continued)</b>		
Arsenic Basic, 500 lb kegs....	.28	.35	Pitch, Coal-Tar, wks.....	30.00	33.00		Chlorate, crys. 112 lb kgs. c/l		
Kegs, 100 lbs.....	.38	.30	Plaster Paris, tech. 250 lb bbls.bbl	3.30			Wks.....	.08%	.08%
Kits, 58, 28, 14 lbs.....	.31	.33	True Dental, 300 bbls.....	bbl	4.50		Imp. 112 lb kegs NY.....		.08
Packages, 5 and 2 lbs.....	.32	.33	Platinum, metal soft 10 oz. lots.....		122.00		Powd., 112 lb kegs wks.....	.08%	.09
Packages, 1 lb, 1/2, 1/4 lb.....	.34	.38	Podophyllin, 5 lb bot.....	6.00	6.25		Imp., kegs NY.....	.07%	.07%
Paris White, see whitening, French			Second Hands.....	5.95	6.00		Pyrotechnic, fine powd. NY.....	.08	.09
Pepsin, USP 5 lb bot.....	2.25	2.50	<b>POTASH, CAUSTIC, solid 88-92%</b>				USP, fine crys. 110 lb kegs		
<b>PETROLATUM, green 300 lb bbls.</b>			700 lb drs. wks.....				NY.....	.08	.09
Dark Amber 300 lb bbls.....	.03%	.03	Imp., 88-92% 700 lb drs. NY.....	.06%	.06%		Citrate, USP 10 lb cans.....	.61	.66
Light Amber, 300 lb bbls.....	.04%	.05	USP, by alcohol 5 lb cans.....	.46	.48		Cyanide 110 lb cases.....		.65
Cream White, USP 300 lb bbls.....	.07	.07%	cases.....	.30	.35		Glycerophosphate, 75% Soln. 25 lb		
Lily White, USP, 300 lb bbls.....	.09	.09%	<b>POTASSIUM Acetate, USP, 100 lb</b>				tins.....	1.60	1.70
Snow White, USP, 300 lb bbls.....	.12%	.13	kegs.....	.30	.31		Guaicol Sulfonate, 5 lb cans,		
Phenol, see also acid carbollic			Bicarbonate, crys. 220 lb bbls.....	.11	.12		10 lb.....	1.75	2.00
American makers, drums wks....			Wks.....	.09%	.09%		Hypophosphite, 10 lb cans.....	.80	.85
Open market, drs.....	.37	.39	Bichromate, crys. 900 lb casks.....	.09%	.10		Iodide, USP, 100 lb cases.....	3.60	3.65
240 lb drs. drs. wks.....			Powd., 900 lb casks wks.....		.12		Second Hands, cases.....		3.60
Natural, 240 lb des drs. wks.....			Binoxalate, 300 lb bbls.....	.28	.30		Lactophosphate, 4 oz bot.....		.90
Imported, 336 lb des drs.....			Bisulfate, C.P., 5 lb cans.....		.30		Metabisulfite, 300 lb bbls.....		.28
Phenolphthalein, USP, 100 lb drs.....	1.40	1.50	100 lb kegs.....		.22		Imp., 300 lb bbls.....	.12	.14
5 lb cans, 100 lb lots.....	1.50	1.60	Bromate, 100 lb cs.....		.45		Muriate, 80%, 200 lb bags, NY		
Phenyl-Alpha-Naphthylamine 100 lb			bbls.....		.76		K <sub>2</sub> O unit.....		.68
kegs.....			Granular, 300 lb bbls.....		.30		Nitrate, see Saltpetre		
Phenylethylalcohol, 1 lb bot.....	6.75	8.75	Cases, 100 lb.....		.31		Oxalate, neutral, 100 lb kegs.....	.40	.45
Imported.....	7.75	9.75	Imported, USP, 220 lb cs.....	.18	.19		Perchlorate, 112 lb kegs.....	.09%	.10
Phosgene, 100 lb cylinders.....		1.00	<b>CARBONATE 80-85% calc.</b>				<b>PERMANGAN, USP, crys. 500 lb</b>		
Phosphorus Oxide, 175 lb cyl.....	.35	.40	800 lb cks.....	.05%	.05%		drs. wks.....	.13%	.14%
Phosphorus, red 110 lb cs. wks.....		.75	80-85%, hydrated, 800 lb				Imp. 112 lb drs.....	.14	.17
Imported, 112 lb cases.....			cks.....	.05%	.05%		Prussiate, red, 100 lb bbls.....		.48
Yellow, 110 lb cs. wks.....	.35	.40	90-95% calc. casks.....	.06	.06%		500 lb casks.....		.45
Imported, 112 lb cases.....			96-98% calc. casks.....	.05%	.06%		Prussiate, yellow, 500 lb casks.....	.19%	.20
Phosphorus Trichloride, 175 lb cyl.			99% calc. casks.....	.07	.07%		Salicylate, 25 lb cans.....		.75
Wks.....		.45	resp. 100 lb kegs.....	.11	.12		Sulfate, 200 lb bags, NY.K <sub>2</sub> O unit		.94
Phthalic Anhydride, 100 lb bbls.....		.30	99% CP casks.....	.12	.12%		USP, VIII, 100 lb kegs.....	.15	.18
Pilocarpine Hydrochloride, USP 25 oz.							Sulfocyanide, CP 25 lb jars.....		.50
lots, 1 oz. vials.....		3.82					Tartrate, neutral, 100 lb kegs.....		.53
Nitrate.....		3.75					Titanium Oxalate 200 lb bbls.....	.28	.30
Single ounces.....		3.82							
Alkaloid, 15 gr. vials.....		.75							

Largest producers of Pure Phthalic Anhydride in the world

**SELDEN**

99.99+% Pure.

**Brand PHTHALIC ANHYDRIDE**is the Product by which all other  
Brands may be Standardized.**IT-IS-PURE**

Unless Phthalic Anhydride melted in a TEST TUBE, has the same colorless appearance as SELDEN BRAND, it contains foreign matter which proves it is *not* STANDARD.

It is possible that trouble in commercial or research work can be traced directly to the use of *impure* Phthalic Anhydride.

**THE SELDEN COMPANY**

Pittsburgh, Pa., U. S. A.

## Chemicals

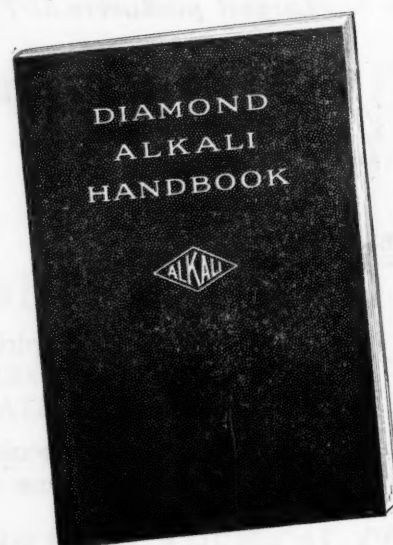
Fumic Stone, lump, 250 lb bbls. D	.04 1/2	.06	QUININE—(continued)			Santonin USP, 1 lb bot.	D 140.00	: 145.00
Lump, bag	.03 1/2	.05	Tartrate	..	.85	Powd. 1 lb bot.	D 142.00	: 148.00
Powdered, 350 lb bbls.	.02 1/2	.03	Valerate	..	.89	Saponin, ex Quillaja, 5 lb tins.	D 1.00	: 1.25
Pyridine, 50 gal drums.	3.50	: 3.75	Small Sizes: 1 oz vials or cans,			Satin White, 500 lb bbls.	D	: .01 1/2
QUICKSILVER, see Mercury			50 oz. lots, 5c on extra; 50 oz cans,			Schaeffer's Salt, 250 lb bbls. wks. D	.60	: .65
Quinidine Alk., 100 oz tins.	..	.75	50 oz lots 3c on extra; 250 oz cans,			Scopolamine, see hyoscine.		
Sulfate, 100 oz tins.	..	.50	50 oz lots, 2c on extra; single 1 oz			Seidlitz Mixture, 225 lb bbls.	D .17	: .18
Quinidine, see Chinidina			vials or cans, 5c extra. All minor			SILICA		
QUININE SULFATE, USP,			quinine salts sold and quoted basis			Crude, bulk, mass.	ton 10.00	: 12.00
American, 100 oz tins.	..	.50	100 oz and bisulfate acid basis 100 oz			Refined, floated, bags.	ton 18.00	: 30.00
1 oz tins, 100 oz lots.	..	.57	lots in 100 oz cans. Smaller orders			Air floated, bags.	ton 32.00	: 50.00
Dutch, 100 oz tins.	..	.50	or containers extra as above			Extra, floated, bags.	ton 55.00	: 65.00
Java, 100 oz tins.	..	.50	schedule.			SILVER, metal, American	..	: .99 1/2
Japanese, 100 oz tins.	..	.50	8 SALT, 250 lb bbls. wks.	D .55	: .70	Foreign	..	: .64 1/2
QUININE ALK., USP, 100 oz tins.	..	.67	Red Lead, see lead oxide			Colloidal, 16 oz bot.	..	: 2.80
Acetate	..	.88	Red Precipitate, see mercury			Silver Iodide, 16 oz bot.	..	: .68
Arsenate	..	.88	Resorcin, see resorcinol.			Nitrate, USP, 200 oz bot.	..	: .44
Benzonate	..	.88	Resorcinol tech, 100 lb bags.	D 1.35	: 1.50	Nucleinate, 16 oz bot.	..	: .34
Bisulfate, USP	..	.50	USP, 25 lb cans	D 2.25	: 2.35	Proteinates, 16 oz bot.	..	: .34
Citrate	..	.53	Rochelle Salt, USP, 225 lb bbls.	D .20	: .21	Soap, Castile, 40 lb bbls.	D .20	: .25
Dihydrochloride, USP	..	.66	Imp. USP, 300 lb bbls.	D .19 1/2	: .20	Powd. USP, 250 lb bbls.	D .28	: .29
Dibromide	..	.66	Rosewater, triple, 5 gal. demis.	gal .90	: 1.10	Green, USP, 150 lb kegs.	D .07	: .07 1/2
Dicarbonate, 10 oz tins.	..	2.50	Rotten Stone, lump imp., bbls.	D .07	: .08	Soapstone, see Talc, crude		
Ethyl Carbonate, 16 oz. tins.	..	.76	Lump selected, bbls.	D .09	: .12	SODA ASH, 58% light bag NY		
Ferrocyanide	..	.88	Powdered, bbls.	D .02	: .05	flat, ex-warehouse	100 lb	: 1.94
Formate	..	.55	Domestic, bags, minos.	ton 24.00	: 30.00	Bbls., ex-warehouse.	100 lb	: 2.19
Glycerophosphate	..	.88	SACCHARIN, USP, 1 lb cans, 25 lb	D 1.90	: 2.10	Contract, Basis 58% bags c/l	..	: 1.38
Iodide	..	.88	Soluble, USP, 1 lb cans, 25 lb	D 1.90	: 2.10	wks.	100 lb	: 1.38
Hydrobromide, USP	..	.62	Sal Ammoniac, see Ammon. Chloride			Prompt and spot, Basis 58% bags	..	: 1.48
Hydrochloride, USP	..	.62	Salicin, USP, 1 lb cartons, 25 lb.	D 5.00	: 5.25	c/l wks.	100 lb	: 1.48
Hydrochlorosulfate	..	.66	Salol, USP, 100 lb drums.	D .80	: .85	Soda Ash, 58% dense, bags ex-		
Hydrochloride & Urea, USP.	D	.88	Salt, Common, see sodium chloride			warehouse, NY	100 lb	: 2.01
Lactate	..	.75	Salt Cake, c/l f.a.b. wks.	ton 21.00	: 25.00	Bbls., ex-warehouse.	100 lb	: 2.25
Phenolsulfonate	..	.88	SALT PETRE, Double Refined			Contract, Basis 58% bags c/l	..	: 1.45
Phosphate	..	.74	Granular, 400-500 lb bbls.			wks.	100 lb	: 1.45
Salicylate, USP	..	.63	c/l wks	..	: .06 1/2	Pmt. and spot, Basis 58% bags	..	: 1.55
Tannate, USP	..	.45	Less c/l works, bbls.	..	: .05 1/2	c/l wks.	100 lb	: 1.55
			Large Crystals, 350-400 lb bbls.,			Prices on soda alkalies are based on actual		
			c/l wks.	..	: .08	percentages and not N. Y. & L. test.		
			Small Crystals, 350-400 lb bbls.			SODA, CAUSTIC, 76% solid, resale,		
			c/l wks.	..	: .07 1/2	NY flat	100 lb	: 3.30
			Powdered, bbls. c/l wks.	..	: .07 1/2	76% solid dra. ex-warehouse		
			Imported, 500 lb bbls., NY.	D	: .07	NY	100 lb	: 3.66

## Announcing—

NOT a catalogue. A handbook of practical information of value to users of Alkali. Contains many valuable tables and suggestions relating to the proper usage of Diamond Alkalies.

Copies available to those interested upon request.

DIAMOND ALKALI COMPANY  
PITTSBURGH · PENNA





**N**EVER satisfied with the present,  
striving always for betterment  
of the future of the industry is one  
thought and action that has main-  
tained Solvay leadership since 1881.  
You can rely on Solvay for Alkali.

Solvay 58% Soda Ash  
Dense—Light—Extra light (Fluf)  
Solvay 76% Caustic Soda  
Solid—Flake—Ground  
Solvay Super Alkali {15%—45%  
Solvay Snow Flake Crystals  
Solvay Laundry Soda  
Solvay Cleansing Soda  
Solvay Tanners Alkali  
Solvay Tanners Soda  
Solvay Liquid Caustic Soda



## The Solvay Process Company

Detroit, Mich.    Syracuse, New York    Hutchinson, Kan.

*Sales Division Wing & Evans, Inc. - 40 Rector St., New York*

Boston	Cincinnati	Cleveland	Detroit	Pittsburgh
Chicago	Syracuse	Indianapolis		



## Chemicals

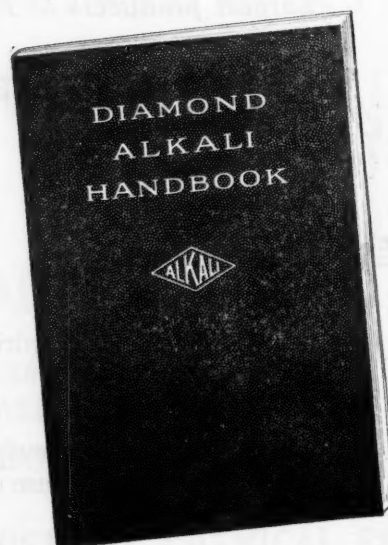
Pumice Stone, lump, 250 lb bbls. D	.04 1/4	.06	QUININE—(continued)			Santonin USP, 1 lb bot.	D 140.00	145.00
Lump, bags	.03 1/4	.05	Tartrate		.88	Powd. 1 lb bot.	D 142.00	148.00
Powdered, 350 lb bbls. D	.02 1/4	.03	Valerate		.88	Saponin, ex Quillaja, 5 lb tins	D 1.00	1.25
Pyridine, 50 gal drums	3.50	3.75	Small Sizes: 1oz vials or cans			Satin White, 500 lb bbls.	D	.01 1/4
QUICKSILVER, see Mercury			50oz lots, 5c on extra; 50m cans			Schaeffer's Salt, 250 lb bbls. wva. D	.60	.65
Quinidine Alk., 100oz tins	.75		50oz lots, 3c on extra; 35oz cans			Scopolamine, see hyoscyne		
Sulfate, 100oz tins	.50		50oz lots, 2c on extra; single 1oz			Seidlitz Mixture, 225 lb bbls.	D .17	.18
Quinodine, see Chinodine			vials or cans, 5c extra. All minor			SILICA		
QUININE SULFATE, USP.			quinine salts sold and quoted basis			Crude, bulk, names	ton	10.00
American, 100oz tins	.50		100oz lots in 100oz cans. Sulfate			Refined, floated, bags	ton	18.00
1oz tins, 100oz lots	.57		and bisulfate sold basis 100oz			Air floated, bags	ton	32.00
Dutch, 100oz tins	.50		lots in 100oz cans. Smaller orders			Extra, floated, bags	ton	55.00
Java, 100oz tins	.50		or containers extra as above			SILVER, metal, American		.99 1/2
Japanese, 100oz tins	.50		schedule.			Foreign		.84 1/4
QUININE ALK., USP., 100oz tins	.67		R SALT, 250 lb bbls. wva.	D .55	.70	Colloidal, 16oz bot.		2.80
Acetate	.88		Red Lead, see lead oxide			Silver Iodide, 16oz bot.		.68
Aracetate	.88		Red Precipitate, see mercury			Nitrate, USP, 200oz bot.	.44	.46
Benzoate	.88		Resorcin, see resorcinol.			Nucleinate, 16oz bot.	.34	.38
Bisulfate, USP	.50		Resorcinol tech, 100 lb kegs	D 1.35	1.50	Proteinates, 16oz bot.	.34	.38
Citrate	.62		USP, 25 lb cans	D 2.35	2.35	Soap, Castile, 40 lb bxs	.30	.35
Dihydride, USP	.66		Rochelle Salt, USP, 225 lb bbls.	D .20	.21	Powd. USP, 250 lb bbls.	.38	.39
Dihydrobromide	.66		Imp. USP, 300 lb bbls.	D 19 1/4	.30	Green, USP, 150 lb kegs	.07	.07 1/4
Dicarbonate, 16oz tins	2.50		Rosewater, triple, 5 gal. demis.	gal .90	1.10	Soapstone, see Talc, crude		
Ethyl Carbonate, 16oz tins	.76		Rotten Stone, lump imp.	D .07	.08	SODA ASH, 58% light bgs NY		
Ferrocyanide	.88		Lump selected, bbls.	D .09	.12	Flat, ex-warehouse	100 lb	1.94
Formate	.85		Powdered, bbls.	D .02	.05	Bbls., ex-warehouse	100 lb	2.19
Glycerophosphate	.88		Domestic, bags, minos.	ton 24.00	30.00	Contract, Basis 58% bags c/l		1.38
Hydriodide	.88		SACCHARIN, USP, 1 lb cans, 25 lb			wks.	100 lb	1.38
Hydrobromide, USP	.62		Soluble, USP, 1 lb cans, 25 lb	D 1.90	2.10	Prompt and spot, Basis 58% bags		1.48
Hydrochloride, USP	.62		Sal Ammoniac, see Ammon. Chloride			c/l wks.	100 lb	1.48
Hydrochlorosulfate	.66		Salicin, USP, 1 lb cartons, 25 lb	D 5.00	5.25	Soda Ash, 58% dems. bags ex-		
Hydride & Urea, USP	.88		Saiol, USP, 100 lb drums	D .80	.85	warehouse, NY	100 lb	2.01
Hypophosphite	.88		Salt, Common, see sodium chloride			Bbls., ex-warehouse	100 lb	2.25
Lactate	.75		Salt Cake, c/l f.o.b. wva.	ton 21.00	25.00	Contract, Basis 58% bags c/l		1.45
Phenolsulfonate	.88		SALTPETRE, Double Refined			wks.	100 lb	1.45
Phosphate	.74		Granular, 400-500 lb bbls.			Pmpt. and spot, Basis 58% bags		1.55
Salicylate, USP	.63		c/l wks.	D .06 1/4	.07 1/4	c/l wks.	100 lb	1.55
Tannate, USP	.45		Less c/l works, bbls.	D .05 1/4	.06 1/4	Prices on soda alkalies are based on actual		
			Large Crystals, 350-400 lb bbls.		.08	percentages and not N. Y. & L. test.		
			c/l wks.	D .07 1/4	.08	SODA, CAUSTIC, 76% solid, resale,		
			Small Crystals, 350-400 lb bbls.		.07 1/4	NY flat	100 lb	3.30
			c/l wks.	D .07 1/4	.08	76% solid drs. ex-warehouse		3.50
			Powdered, bbls. c/l wks.	D .07 1/4	.08	NY	100 lb	3.66
			Imported, 500 lb bbls, NY.	D .07	.08			

## Announcing—

NOT a catalogue. A hand-book of practical information of value to users of Alkali. Contains many valuable tables and suggestions relating to the proper usage of Diamond Alkalies.

Copies available to those interested upon request.

DIAMOND ALKALI COMPANY  
PITTSBURGH - PENNA





**N**EVER satisfied with the present,  
striving always for betterment  
of the future of the industry is one  
thought and action that has main-  
tained Solvay leadership since 1881.  
You can rely on Solvay for Alkali.

Solvay 58% Soda Ash  
Dense—Light—Extra light (Fluf)  
Solvay 76% Caustic Soda  
Solid—Flake—Ground  
Solvay Super Alkali { 15%  
36%—45%  
Solvay Snow Flake Crystals  
Solvay Laundry Soda  
Solvay Cleansing Soda  
Solvay Tanners Alkali  
Solvay Tanners Soda  
Solvay Liquid Caustic Soda



## The Solvay Process Company

Detroit, Mich.    Syracuse, New York    Hutchinson, Kan.

*Sales Division Wing & Evans, Inc. - 40 Rector St., New York*

Boston	Cincinnati	Cleveland	Detroit	Pittsburgh
Chicago	Syracuse	Indianapolis		

## Chemicals

## SODA CAUSTIC—(Continued)

Contract basic 76% c/l wks.	...	3.19
Contract basic 76% c/l wks.	...	3.19
Contract 74% low grade c/l wks. flat	...	3.02
Ground & flake, 76% pmpt and pot, wks c/l drs.	...	3.60
Contract, 76% drums, c/l wks flat	...	3.50
76% drs. ex-warehouse NY	...	4.08
USP, stick, 10 lb cans	...	.19
Pure, stick, by alcohol	...	.35
SODIUM ACETATE, crys 450 lb bbls	...	
Wks.	...	.04%
Ton lots, bbls. wks.	...	.04%
Imp. 600 lb casks	...	
Aluminum Sulfate, see alum soda	...	
Benzonate, USP, 100 lb bbls.	...	.65
Bicarbonate, 400 lb bbls NY	...	2.25
Bbls. c/l wks.	...	2.00
112 lb kegs wks.	...	2.25
112 lb kegs, NY	...	2.50
Bichromate, 600 lb casks wks.	...	.07%
Casks, c/l wks.	...	.07%
Casks, NY	...	.07%
Bisulfite, dry powder, 500 lb bbls., wks.	...	.04
Solution, 32-40°, 600 lb bbls.	...	1.25
Wks.	...	1.75
Bromate, 100 lb cs.	...	.95
Bromide, USP, 450 lb bbls.	...	.27
Cases, 100 lb	...	.22
Imp. USP, 112 lb cs.	...	5.50
Cacodylate USP, 5 lb bot.	...	5.75
25 lb	...	
Carbonate, sal soda, 350 lb bbls	...	1.30
lc/l NY	...	1.10
Works c/l	...	
Monohydrate, 400 lb bbl.	...	
lc/l	...	2.45
Pure photographic, 100 lb	...	
kg	...	.08

## SODIUM—(Continued)

Chlorate, 112 lb kegs. wks.	...	.08%
Imported, 112 lb kegs.	...	.08%
Chloride, tech. 200 lb bags.	12.00	13.00
lc/l 300 lb bbls.	...	.57
Citrate, USP, IX, 100 lb kegs.	...	.59
USP, VIII, 100 lb kegs.	...	.52
Cyanide, 90-95%, 100 lb cases	...	.22
Wks.	...	.22
Ton lots, wks.	...	.19%
73-76%, 100 lb cases, wks.	...	.20
125-128%, 200 lb cs.	...	.19%
120-125%, 200 lb cs.	...	.08%
Fluoride, 300 lb bbls, wks.	...	.09%
Imp. 350 lb bbls.	...	.09%
Glycerophos, USP, crys 25 lb	...	1.65
Cans	...	1.75
Powder, 25 lb tins.	...	1.70
Solution, USP 25 lb tins.	...	1.00
Hydroxide, see Soda Caustic	...	
Hypochlorite, Soln, 100 lb ctya.	...	.05
14 1/2% soln., 50 lb ctya.	...	.04
Hydroxide, 200 lb bbls, rob. wks.	...	.22
Hypophosphite, USP, 25 lb cans	...	.70
NYPSULFITE, tech. pos crys.	...	
375 lb bbls. wks.	...	2.90
Bbls. c/l wks.	...	2.75
100 lb kegs wks.	...	3.00
Imp.	...	2.90
Granulated, 200 lb wks.	...	3.15
Bbls. c/l wks.	...	3.00
Kegs wks.	...	3.25
Regular crystals	...	2.65
Iodide, USP, 25 lb jars.	...	4.25
Metanilate, 150 lb bbls.	...	.55
sapuntionate, 300 lb bbls.	...	.60
Nitrate, crude, 95%, 200 lb bps.	...	2.45
c/l NY	...	2.47%
Futures, NY	...	2.50
Double refined, 400 lb bbls	...	
gran. c/l wks.	...	.04%
Nitrite, 500 lb bbls. wks.	...	.08
Bbls. spot, makers.	...	.08%
Imp. 650 lb cases.	...	.08

## SODIUM—(Continued)

Ortho-Chloro-para-Toluenes Sulfonate, 175 lb bbls. wks.	...	.25
Oxalate, neutral, 100 lb bags.	...	.40
Perborate, 275 lb bbls.	...	.23
Imp., 225 lb drs.	...	.18
Peroxide, 200 lb cases	...	.25
Phosphate, di-sodium, tech 550 lb bbls.	...	.03%
USP, gran. 275 bbls.	...	.07
Imp. gran.	...	.05%
USP, recryst. 275 bbls.	...	.10
Mono-sodium 100 lb kegs.	...	.24
Tri-sodium tech. c/l bbls.	...	.04%
Picramate, 100 lb kegs.	...	.60
Para-Toluenes Sulfonate, 175 lb bbls.	...	.08
PRUSSIAN, yellow, 250 lb bbls.	...	.12
Imp. 450 lb cks.	...	.11%
Pyrophosphate, 100 lb kegs.	...	.18
Salicylate, 100 lb kegs.	...	.40
Second Hands, USP, kegs.	...	.37
Silicate, 60° 700 lb bbls, f.a.s.	...	
NY	...	2.00
Works, 1000 lb drums.	...	1.90
Works, tanks	...	1.75
40° domestic, 700 lb c/l f.o.b.	...	
Wks.	...	.80
Works, 1000 lb drums.	...	.85
Works, tanks	...	.75
Spot, drums, bbls.	...	1.80
Silicofluoride, 450 lb bbls, NY.	...	.08
Sulphate, see Glauber's Salt.	...	
Sulfate, c/l	...	.08%
Sulfide, 60° solid, 650 lb drs.	...	
lc/l wks.	...	.04%
Drs. c/l wks.	...	.03%
Imp. 700 lb drs. NY	...	.03%
60° broken, 650 lb drs wks.	...	.04
Imp., 500 lb drs. NY	...	.03%
30° crys. 400 lb bbls. wks.	...	.02
Imp., 400 lb bbls.	...	.02%
Sulfite, crys. 400 lb bbls. wks.	...	.03%
Desticated, 400 lb bbls.	...	.09%



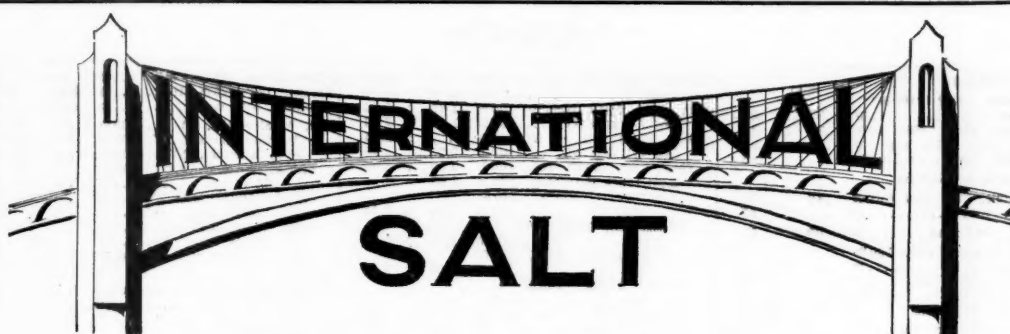
SODA ASH  
CAUSTIC SODA  
BICARBONATE OF SODA

## MICHIGAN ALKALI COMPANY

General Sales Department  
East 40th Street, New York  
Works: Wyandotte, Michigan

"Distinguished for its High Test and Uniform Quality"





### THE BRIDGE TO SATISFACTION

Why does the International Salt Company work unceasingly to give satisfaction in service as well as in product?

Because it realizes that prompt deliveries of pure salt in any required quantity is necessary to the effectiveness of industrial processes.

When you order International Salt, we meet the implied obligation of service

**THE INTERNATIONAL SALT CO., Inc.**

SCRANTON, PENNSYLVANIA

NEW YORK    BUFFALO    PITTSBURG

## WE SOLICIT YOUR INQUIRIES

SAMPLES ON REQUEST

#### DIRECT IMPORTERS OF:

Barium  
Carbonate  
Chloride  
Nitrate

Potash  
Chlorate  
Permanganate

Soda  
Phosphate T. B.  
Prussiate

Strontium  
Nitrate

Casein

Blanc Fixe

Infusorial Earth

Lithopone

Blue Vitriol

#### ALSO PAINT MATERIALS:

Ochers, Umbers, Iron Oxide and Mineral Blacks

**ELLIS JACKSON & COMPANY**

18 N. FRONT STREET

PHILADELPHIA

29 Broadway  
New York

Howard Building  
Providence

## Chemicals

<b>SODIUM—(Continued)</b>			<b>SULFUR, crude bulk, c/l NY..ton</b>			18.00	: 19.00	<b>Thiocarbamid, 170 lb bbls.....D</b>			.28	: .30
Sulfocarbonate, USP 100 lb			Crude, f.o.b. mines.....ton			14.00	: 15.00	Thymol, USP, 25 lb tins.....D			3.25	: 3.50
bags.....D	.27	: .30	Brimstone, 250 lb bags, c/l 100 lb			1.75	: 1.95	Iodide, 5 lb boxes.....D			6.75	: 7.00
Sulfocarbonate, 400 lb bbls.....D	.45	: .47	Less c/l bags NY.....100 lb			1.85	: 2.10	<b>TIN, Metal Straths, NY.....100 lb</b>			53.00	
Tungstate, crys, 100 lb bags.....D	..	.55	Roll, 500 lb bbls, c/l NY.100 lb			..	: 2.15	American standard, NY.....100 lb			52.50	
Densicated, bags.....D	..	.65	Less c/l bags NY.....100 lb			2.20	: 2.45	99% American, NY.....100 lb			52.00	
Solvent Naphtha, see Naphtha			Flour, Heavy, 290 lb bbls, 100 lb			2.50	: 3.05	Bichloride, 50% solu. 100 lb			..	
Sparteine Sulfate, USP, 250 lb bulk on	.40	: .50	Light, 100%, 260 lb bbls, 100 lb			2.60	: 3.15	bbls. wks.....D			.14	
Single on vial.....D	..	.57	Rubbermakers 100%, 240 lb			..		Crystals, 500 lb bbls. wks.....D			.35%	
Starch, rice, 140 lb bags.....D	.09	: .10	bbls. NY.....100 lb			2.60	: 3.15	100 lb kegs, wks.....D			.38	
<b>STRONTIUM Bromide, USP, 100 lb</b>			Commercial, 99%, 150 lb bags			1.35	: 1.65	Oxide, 400 lb bbls. wks.....D			.53	
bags.....D	..	.33	NY.....100 lb			..		100 lb kegs wks.....D			.55	
Carb. 600 lb bbls. wks.....D	..	.07	For Dusting, 99%, 100 lb			2.00	: 2.50	Tetrachloride, 1000 lb drs. wks. lb			.35%	
100 lb kegs wks.....D	..	.05	bag, NY.....100 lb			..		Toluidine, 350 lb bbls.....D			1.00	: 1.10
Iodide, USP, 25 lb jars.....D	..	4.00	Flowers, 100%, 240 lb bbls.			3.00	: 3.55	Toluene, 8000 gal tank cars, wks. gal			..	.30
Nitrate, 600 lb bbls. wks.....D	..	.11%	NY.....100 lb			..		110 gal drs. wks.....gal			..	.51
Imp., bbls. NY.....D	.11%	: .13	Precipitated, 125 lb bbls NY..D			.14	: .16	Sulfate, 350 lb bbls.....D			..	1.10
Salicylate, USP, 100 lb kegs.....D	..	.75	Lac, 125 lb bbls NY.....D			.07	: .10	Toluidine, Mixed, 900 lb drs. wks. D			..	.31
<b>STRYCHNINE Alkaloid, USP, crys.</b>			Sulfur Chloride, red, 700 lb drs.			..		Triacetin, 50 gal. drs., wks.....D			..	.45
1000s tins.....D	..	.95	wks.....D			.06	: .07	Triphenol, 100 lb cases.....D			..	1.00
Alk. powd., USP.....D	..	.85	150 lb chys. wks.....D			..	.08	Trional, see Sulfonethymethane			..	
Acetate.....D	..	1.05	Yellow, 700 lb drs. wks.....D			.05	: .08	Triphenylguanidine.....D			..	.30
Glycerophosphate, USP.....D	..	1.05	150 lb chys. wks.....D			..	.07	Triphenyl Phosphate, 450 lb bbls. lb			.50	: .60
Hydrochloride.....D	..	1.05	Sulfur Dioxide, 100 lb cyl.....D			.08	: .08%	Tripoli, 500 lb bbls.....100 lb			2.50	: 3.00
Hypophosphite.....D	..	1.05	Iodide, USP, VIII, 5 lb bot..D			..	4.55	Tungsten NY.....W.O. unit			8.50	: 10.00
Nitrate, USP.....D	..	1.05	Sulfuric Ether, see Ether			..		Ultramarine Blue.....D			..	.18
Phosphate.....D	..	1.05	Sulfuryl Chloride, 600 lb drs.....D			..	.70	UREA, pharm. 112 lb cases.....D			..	.30
Sulfate, USP, crys. powd.....D	..	.68	TALC, Italian, 220 lb bags NY..ton			35.00	: 40.00	VANILLIN, USP, 5000s cans.....D			..	.54%
Saccharinate.....D	..	2.15	Refined white, bags.....ton			42.00	: 55.00	Cans, 50 oz.....D			..	.85
Strychnine preparations quoted bases			French, 220 lb bags NY.....ton			25.00	: 30.00	Cans, 16 oz.....D			..	.60
1000s lots in 1000s tins. Small Sizes;			Refined, white, bags.....ton			32.00	: 45.00	Venetian Red.....D			..	.05
1/4 oz vials, 50c extra; 1/2 oz vials, 25c			Dom., crude, 100 lb bags NY..ton			10.00	: 15.00	Verdigris, see Copper Subacetate			..	
extra; single ounce vials. 7c extra. Lots			Refined, 100 lb bags NY.....ton			18.00	: 25.00	Vermilion, Amer. 100 lb kegs.....D			..	1.30
of 25 ozs. 6c higher than above			Tartar Emetic, tech. 700 lb bbls. lb			.26	: .28	English, kegs.....D			..	2.00
schedule. Lots of less than 25 ozs.			USP, 300 lb bbls.....D			.31	: .34	Veratrine Sulfate, 1 oz vial.....D			..	2.00
10c higher per oz.			Terpin Hydrate, USP, 100 lb kegs lb			.60	: .62	Hydrochloride, 1 oz vial.....D			..	2.00
Sugar Milk USP, 200 lb bbls.....D	.21	: .22	Terpineol, CP 1000 lb drums.....D			.50	: .51	Veronal, see Acid Diethylbarbituric			..	
Second Hands, USP, bbls.....D	.21	: .22	Cans, 50 lb.....D			.54	: .55	WHITE LEAD, see lead, white.			..	
Sulfonal, see Sulfonmethane			Imported, cans, 25 lb.....D			.95	: 1.20	White Precipitate, see mercury.			..	
Sulfonethymethane, USP, 5 lb bbs. lb	2.50	: 3.70	Terpenyl Acetate, 25 lb cans.....D			1.85	: 1.85	Whiting, 200 lb bags, c/l wks. ton			14.00	: 16.00
Sulfonmethane, USP, 5 lb bbs.....D	2.40	: 2.60	Terra Alba, No. 1, 300 lb bbls 100 lb			1.85	: 1.90	Bags, 1c/l NY.....ton			..	22.50
			No. 2, bbls.....100 lb			1.25	: 1.35	Children, bags, NY.....ton			12.50	: 15.00
			Theobromine Alk. 5 lb cans.....D			..	5.75	French, bags, NY.....ton			..	13.00
			and Sod. Salicylate, 1 lb bot..D			..	3.60	English, bags, NY.....ton			..	23.00
								English, bags, NY.....ton			..	23.00
								Witch Hazel Extract, 50 gal. bbls. gal			1.20	: 1.35

R. W. Greeff &amp; Co.

INCORPORATED

78 FRONT ST., NEW YORK, N. Y.

We offer as Exclusive Distributors

FORMIC ACID

90%

AND OXALIC ACID

BINOXALATE POTASH

ACETIC ACID ANHYDRIDE

Manufactured by

Fabriek Van Chemische Producten

Schiedam, Holland

Barrett  
Standard

Pure Benzol  
Pure Toluol  
Benzol 90%  
Nitration Xylol  
Commercial Xylol  
Solvent Naphtha  
Extraction Benzols  
Denaturing Benzols  
Special Fractions of  
Coal Tar Light Oils

For shipment in tank cars or  
one hundred gallon drums.

The Barrett Company

40 Rector Street



New York, N. Y.

# Chemicals

XYLENE, 3° dist. range, nitration tka. wks. ....gal	.40	.45
110gal. drs. NY.....gal	.45	.50
5° dist. range, 8000gal tanks wks. ....gal	..	.31
110gal. drs. wks. ....gal	..	.35
10° dist. range, drums, wks. gal	..	.34
Commercial, 110 gal. drs., wks. gal	.32	.33
Tanks, wks. ....gal	.27	.28
Xylidine, 900lb drs. ....lb	.40	.42
YANA YANA, 1lb tins. ....lb	1.75	2.00
Yohimbine Hydrochloride, 1 oz. vial. oz	3.50	4.07
ZINC, METAL, high grade, slabs c/l NY .....100lb	6.95	7.00
Common Slabs, c/l NY.....100lb	..	.16
Messy, 25lb boxes NY.....lb	..	.07½
Ammonium Chloride, powd., 400lb bbls. ....lb	..	.08
Carb. tech. 150lb kegs NY.....lb	..	.13
USP, 100lb kegs. ....lb	..	.30
Chloride, fused, 400lb drs. wks. lb	..	.06
Drs. c/l wks. ....lb	.04½	.05
Imp. drs. NY.....lb	..	.05
Granulated, 500lb bbls. wks. lb	.06	.08
Imported, drs. NY.....lb	.06½	.07
USP, 25lb jars .....lb	.20	.25
Cyanide, 100lb drs. ....lb	..	.40
Dust, 100lb tins wks. ....lb	.09½	.10
500lb bbls, kegs, c/l wks. lb	..	.09½
500lb bbls, kegs, c/l wks. lb	..	.08½
Iodide, 5lb bbls. ....lb	..	5.30
Nitrate 25lb jars .....lb	..	.35
Oxide, Amer. 300lb bbls, wks. lb	.08½	.08½
Bbls. c/l wks. ....lb	.08½	.08½
French, 300lb bbls wks. ....lb	.10½	.12½
Bbl c/l wks. ....lb	.10	.12
Bags, c/l wks. ....lb	.09½	.10½
USP, 100lb bbls. c/l.....lb	..	.17
Ton lots, wks. ....lb	..	.18
Imported, white seal, bbls. ....lb	..	.12
Green seal, bbls. ....lb	..	.10
USP, 100lb bbls. ....lb	.15	.17
Stearate, USP, 50lb bbls. ....lb	..	.22
Sulfate, 400lb bbls, wks. ....lb	.03½	.03½
Bbls. c/l wks. ....lb	..	.02½
USP, 100lb kegs .....lb	.08	.09
Sulfocarbonate, 100lb kegs. ....lb	.32	.34

## Oils

Castor, No. 1, 400lb bbls. ....lb	.15	.15½
80lb cases .....lb	..	.16
No. 3, bbls. ....lb	..	.14½
Blown, 400lb bbls. ....lb	..	.18½
China Wood, bbls., spot NY.....lb	..	.19½
8000 gal. tks. NY.....lb	..	..
Feb., Mar., forward, bbls. ....lb	..	.19½
China .....lb	..	.18½
Coast, tanks, Feb., forward.....lb	.18½	.18½
Coconut Ceylon, 375lb bbls, NY. lb	.10	.10½
8000 gal. tanks, NY.....lb	.08½	.09
Cochin, 375lb bbls, NY.....lb	.10½	.11
Tanks, NY .....lb	.09½	.09½
Manilla, tanks, P. Coast.....lb	.08½	.08½
Kutibie bbls, NY .....lb	.11	.11½
Cod Newfoundland, 50 gal. bbls. gal	.67	.72
Tanks, NY .....gal	..	..
Copra, bags .....lb	.05½	.05½
Corn, ref. 375lb bbls, NY.....lb	.13	.13½
Crude, tanks mills .....lb	.09½	.09½
Bbls, NY .....lb	..	.12
Cottonseed, crude tks. mills.....lb	..	.08½
P. S. Y., 100 bbl. lots NY.....lb	.10	.10½
White, 100 bbl. lots NP.....lb	..	.13½
Winter yellow, 100 bbls, NY.....lb	..	.13½
Degras. Amer. 50 gal. bbls., NY. lb	.04½	.05½
English, bbls, NY.....lb	..	.05
Neutral, bbls, NY.....lb	.11	.14
Moellon, bbls, NY.....gal	..	.50
Greases, choice white, bbls, NY. lb	.08½	.08½
Yellow .....lb	..	.06½
Brown .....lb	..	.06½
House .....lb	..	.06½
Bone naphtha .....lb	..	.06½
Herring, Tanks, Coast .....gal	..	..
Horse, 375lb bbls, NY.....lb	..	.10
Lard, prime steam bbls. ....lb	.12	.12½
Compound, bbls. ....lb	.12½	.13

LARD OIL, Edible prime, bbls....lb	..	.14½
Off prime, bbls. ....lb	..	.13
Extra, bbls. ....lb	..	.11½
Extra No. 1, bbls. ....lb	..	.10½
No. 1 bbls. ....lb	..	.10½
No. 2 bbls. ....lb	..	.10½
LINSEED, raw c/l bbls, spot....gal	..	.94
Five bbls., raw .....gal	..	.97
Boiled, 5 bbl. lots.....gal	..	.99
Double boiled 5 bbl. lots.....gal	..	1.00
Raw, 1c/l bbls. ....gal	..	.97
Tanks .....lb	..	.88
Feb.-Apr., c/l bbls.....gal	..	.94
May-Aug., c/l bbls.....gal	..	.92
Imported, bbls, NY.....gal	..	..
Tanks, NY .....lb	..	..
Menhaden, crude bbls, wks. ....gal	..	..
Crude, tanks, Balt. ....lb	.50	.52
Light strained, tanks.....gal	..	..
Light strained, bbls, NY.....gal	..	.65
Yellow bleached, bbls, NY.....gal	..	.69
Extra bleached, bbls, NY.....gal	..	.70
Blown, bbls, NY .....gal	..	.75
Neatsfoot, 20° c.t. bbls, NY.....lb	..	.17
Pure, bbls, NY .....lb	..	.18½
Extra, bbls, NY .....lb	..	.10½
Olco Oil, No. 1, bbls, NP.....lb	.15½	.15½
No. 2, bbls, NY.....lb	..	.11
No. 3, bbls, NY.....lb	..	.10½
OLIVE, denatured bbls, NY.....gal	1.18	1.20
Edible, bbls, NY.....gal	1.90	2.20
Foots, bbls, NY.....lb	.10	.10½
Shipment .....lb	.10	.10½
Palm Lager, 1500lb casks.....lb	.08	.08½
Niger casks .....lb	.07½	.07½
Bonny old Calabar, casks.....lb	..	..
Palm Kernel, 1500lb casks NY.....lb	.09	.09½
Peanut, refined bbls, NY.....lb	..	.16
Crude, mills buyers' tks.....lb	..	..
Crude, bbls, NY.....lb	..	..
Perilla, bbls, NY.....gal	..	.14½
Poppyseed, bbls, NY.....gal	2.25	2.50



**COLUMBIA BRAND**  
Columbia Chemical Division,  
Pittsburg Plate Glass Co., Barberton, Ohio

## Caustic Soda

All Tests

## Soda Ash

Dense-Light  
Granular if Desired

Sole Selling Agents

**The Isaac Winkler & Bro. Co.**

50 BROAD STREET  
NEW YORK

FIRST NAT'L BANK BLDG.  
CINCINNATI

1816



1924

"Over a Century of Service and Progress"

**"ISCO" LEATHER FINISHES  
HEMATINE CRYSTALS  
EGG ALBUMEN  
CHEMICALS AND COLORS**

**INNIS, SPEIDEN & CO., Inc.**

Manufacturers, Importers, Exporters of  
Industrial Chemicals

46 CLIFF STREET, NEW YORK CITY

Branch Offices

Chicago Philadelphia Boston Cleveland Gloversville, N. Y.

Factories

Niagara Falls, N. Y.

Jersey City, N. J.

Murphysboro, Ill  
Owego, N. Y.



## Oils and Fertilizers

Rapeseed, refined bbls, NY.....gal	.88	: .90
Blown, bbls, NY.....gal	...	: 1.00
Red Oil, distilled, bbls.....lb	.08½	: .09¼
Saponified, bbls.....lb	...	: .09¼
Tanks.....lb	.07½	: .08½
Salmon, 8000 gal. tks. Coast.....gal	...	: ...
Sesame, domestic edible bbls.....lb	.13	: .13½
Sod Oil, bbls, NY.....gal	...	: .45
SOYA BEAN, crude tks. Coast.....lb	...	: .10
Crude, Tks., D.P., NY.....lb	...	: ...
Crude, bbls, NY.....lb	.11½	: .12
Sperm, 38° c.t. blech. bbls, NY.gal	...	: .89
45° cold test, blech. bbls, NY.gal	...	: .84
STEARIC ACID, s.p. 200 lb bags.....lb	.12	: .12½
Double pressed, bags.....lb	.12¼	: .12½
Double pressed, bags, saponified.....lb	.12¼	: .12½
Triple pressed, bags, distilled.....lb	.13¼	: .13½
Triple pressed, bags, saponified.....lb	.13¼	: .13½
Stearine, oleo, bbls.....lb	...	: .09½
Tallow, edible, tierces.....lb	...	: .10¼
City, extra, loose.....lb	...	: .08
Tallow Oil, acidless tks. NY.....lb	...	: .09½
Bbls., c/l NY.....lb	...	: .10½
Walnut, crude bbls, NY.....lb	...	: ...
Whale, nat. winter bbls, NY.....gal	...	: .77
Blehd. winter bbls, NY.....gal	...	: .79
Extra Blehd. bbls, NY.....gal	...	: .81
Crude, No. 1, tanks Coast.....gal	...	: ...
Crude, No. 2, tanks Coast.....gal	...	: ...
Crude, No. 3, tanks Coast.....gal	...	: ...

## Fertilizer Materials

Ammon. Sulf., bulk wks.....100 lb	...	: 3.00
Double, bags, f.a.s. NY.....100 lb	2.85	: 2.90
Single bags, wks.....100 lb	...	: 3.15
Blood, dried f.o.b. NY.....unit	4.15	: 4.30
Bone, 3 & 50 ground steamed.....ton	23.50	: 25.00
Baw, Chicago.....ton	...	: 30.00

Cyanamide wks.....unit	3.20	: 2.25
Fish Scrap, dried wks.....unit	5.00	: .10
Acid, Bulk, 7 & 8½, wks.....unit	3.75	: .50
Ground Fish, Balt.....unit	5.00	: .10
NITRATE SODA, NY.....100 lb	2.45	: 2.47½
Phosphate Rock, f.o.b. mines, Florida pebble, 68-75%.....ton	2.25	: 3.50
Tennessee, 73%.....ton	...	: 5.50
Phosphate Acid, 16% Bulk wks.....ton	7.50	: 8.00
Potassium Murate, 80%.....unit	...	: .68
Sulfate.....unit	...	: .93
Steamed Bone Meal, NY.....ton	32.00	: 35.00
Tankage, ground, NY.....unit	3.65	: .10
High grade f.o.b. Chicago.....unit	3.10	: .10

## Naval Stores

(Carloads ex-yard N. Y.)

Spirits Turpentine, bbls.....gal	...	: 1.00
Wood Turpentine, stm. distd. bbls.gal	...	: .90
Destructive distilled, bbls.....gal	...	: .75
Pine Oil, stm. dist'd, bbls.....gal	...	: .65
Pitch, prime.....bbl	...	: 5.50
Resins, (Sold in 600 lb bbls, gross for net, quotations based on a unit of 280 lb)		
R.....280 lb	...	: 5.75
D.....280 lb	...	: 5.75
E.....280 lb	...	: 5.75
F.....280 lb	...	: 5.75
G.....280 lb	...	: 5.75
H.....280 lb	...	: 5.75
I.....280 lb	...	: 5.75
K.....280 lb	...	: 6.25
M.....280 lb	...	: 6.50
N.....280 lb	...	: 7.15
WG.....280 lb	...	: 7.50
WW.....280 lb	...	: 7.75

Rosin Oil, first run, 50 gal. bbls.gal	...	: .43
Second run, bbls.....gal	...	: .47
Tar, kiln-burnt.....bbl	...	: 11.00
Retort.....bbl	...	: 11.60

## Woods

Barwood, chips.....lb	.04½	: .05
Camwood, chips.....lb	.09	: .13
Divi Divi, pods 100-200 lb bags.....ton	40.00	: 42.00
Fustic, sticks.....ton	30.00	: 35.00
Chips.....lb	.04	: .06
Hemlock, bark.....ton	...	: 30.00
Hyperic, chips.....lb	.06½	: .07
LOGWOOD, sticks.....ton	28.00	: 30.00
Chips 150 lb bags.....lb	.02½	: .03
Mangrove bark, African.....ton	34.00	: 36.00
Bark, South American.....ton	25.00	: 30.00
Myrobalsans, 150 lb bags J1.....ton	...	: 35.00
J2.....ton	...	: 37.00
Notgalls, see Crude Drugs.		
Oak bark, whole.....ton	30.00	: 32.00
Ground.....ton	...	: 35.00
Quercitron bark, rough.....ton	...	: 10.00
Ground.....ton	30.00	: 35.00
Sumac, Sicily, 160 lb bags.....ton	90.00	: 95.00
Virginia, 150 lb bags.....ton	40.00	: 45.00
Valonia Cups, 28-33% tan.....ton	36.00	: 38.00
Beard, 40% tan, 150 lb bags.....ton	60.00	: 62.00
Wattle bark, 150 lb bags.....ton	...	: 35.00

## Extracts

Range of prices includes quality range for large quantity.		
Anatto, fine.....lb	.26	: .39
Archil, double 600 lb bbls.....lb	.14	: .16
Triple, 600 lb bbls.....lb	.15	: .17
Cocoe, 600 lb bbls.....lb	.16	: .18

W. F. GEORGE  
CHEMICALS, INC.

General Offices:

42 Broadway, New York City

Telephone Broad 5428

Soda Ash  
Caustic Soda  
Sodium Bicarbonate  
Glauber's Salt  
Sal Soda  
Sodium Silicate  
TriSodium Phosphate

WAREHOUSES:

New York, N. Y.  
Brooklyn, N. Y.Syracuse, N. Y.  
Utica, N. Y.Albany, N. Y.  
Newark, N. J.

## CHURCH &amp; DWIGHT Co.

80 Maiden Lane

New York

Bicarbonate of Soda  
Sal Soda  
Monohydrate of Soda

GEORGE UHE

BROKERS

NEW YORK

## Tannins and Dyestuffs

Chestnut, clarified, 25% tks. wks. D	.02	.02%
Bbls., wks. .... D	.02%	.02%
Powd., 60% 100 D bbls. wks. D	.05%	.06
Decolorized, bbls., wks. .... D	.08	.09
Cutbear, English .... D	.16	.17
Cutch, Rangoon, 100 D bales .... D	.13	.16
Borneo, solid, 100 D bales .... D	.04%	.05%
Liquid, 450 D bbls. .... D	.10	.11
Tablets, 120 D boxes .... D	.13	.14
Flavine .... D	.90	.95
Fructe, solid 50 D boxes .... D	.20	.22
Crystals, 100 D boxes .... D	...	.20
Liquid, 51°, 600 D bbls. .... D	.10	.12
Gall extract .... D	.16	.18
Gambier, 25% liq. 450 D bbls. D	.08%	.09%
Common, 200 D cases .... D	.10%	.11
Singapore cubes, 150 D bags .... D	.18	.19
HEMATINE, Paste, 500 D bbls. D	.11	.12
Crystals, 400 D bbls. .... D	.14	.20
Hemlock, 25% 600 D bbls. wks. D	.03%	.03%
Hyperic, 51°, 600 D bbls. .... D	.15	.16
Indigo, Madras bbls. .... D	.85	.90
Manila, bbls. .... D	...	1.30
Larch, 25%, 600 D bbls., wks. D	.03%	.03%
Powd. 100 D bags, wks. .... D	.07%	.08
Logwood, 51°, 600 D bbls. .... D	...	.10%
Lower grades .... D	.07	.09
Solid, 50 D boxes .... D	.09	.13
Madder, Dutch .... D	.28	.30
Marigold, 55% 400 D bbls. .... D	.04%	.05
Myrobalsam, 25% liquid bbls. .... D	.04	.05
50% solid, 50 D boxes .... D	.04%	.05
Oak, tanks wks. .... D	.04	.04%
23-25% liq. 600 D bbls. wks. D	.05	.05%

Osage Orange, 51° liquid .... D	.07	.08
Powd. 100 D bags .... D	.14	.15
Persian Berries .... D	.27	.30
QUEBRACHO, 35% liquid tks. D	.03	.03%
450 D bbls. .... D	.03%	.04
35% bleaching, 450 D bbls. D	.04%	.05%
Solid 65% 100 D bales .... D	.04%	.04%
Clarified bales .... D	...	.05
Quercitron, 51° 450 D bbls. .... D	.06%	.07%
Powdered, 100 D boxes .... D	.09	.13
Spruce, 25% liquid tanks wks. D	.01	.01%
Powd. 50% 100 D bags wks. D	.02	.02%
Sumac, liquid 450 D bbls. .... D	.08	.09
Stainless, 600 D bbls. .... D	.10	.11

## DYESTUFFS

Albumen, technical, egg 200 D cs. D	...	1.25
Blood, domestic, 100 D drs. D	...	.45
Spray Yolk 150 D cs. .... D	.45	.65
British Gum, 140 D bags c/l 100 D	3.94	4.09
Hags, lc/l .... 100 D	4.09	4.19
Dextrin, corn 140 D bags c/l 100 D	...	3.59
Bags, lc/l .... 100 D	...	3.69
Yellow, bags c/l .... 100 D	...	3.64
Potato 220 D bags c/l .... D	...	.07%
Bags, lc/l .... D	...	.07%
Yellow, 220 D bags .... D	...	.08
Tapioea, 200 D bags, lc/l .... D	.09	.10
Prussian blue .... D	.60	.62
Sago Flour, 150 D bags .... D	.04%	.05
STARCH, powd. 140 D bags c/l 100 D	...	3.17
Bags, lc/l .... 100 D	...	3.27
Pearl, 140 D bags c/l .... 100 D	3.07	3.17
Potato, domestic, 200 D bags. D	.05	.05%
Imported, bags duty paid. D	.06	.06%
Tapioea Flour, high grade bags. D	...	.07
Medium grade bags. .... D	.05%	.06
Low grade, bags .... D	.04	.04%
Turkey Red Oil, bbls. .... D	.11	.12
Yolk Oil, bbls. .... D	...	.85

## Crude Drugs

Accroides Gum, yel. .... D	.18	.30
ACONITE Leaves, bales .... D	.25	.37
Aconite Root, USP, bags .... D	.48	.60
Agar Agar, 1, 200 D bales .... D	1.50	1.55
No. 2, bales .... D	...	...
No. 3, bales .... D	...	...
Agaric, white, cases .... D	...	4.00
Almonds, bitter bags bxs. .... D	.32	.35
Sweet, bags .... D	.45	.46
Meal, tins, boxes .... D	.24	.30
Aletris Root, bags .... D	.58	.63
Alkanet Root, bags .... D	.06	.06%
Aloes, Barbadoes, 120 D bbls. .... D	.65	.70
Cape, 400 D cases .... D	.09	.10
Cuscuta, 100 D cases .... D	.12	.12%
Scootrine, whole 100 D cs. .... D	.80	.82
Althaea Root, cut cases .... D	.23	.25
Whole bags .... D	.09	.10
Ambergris, black boxes .... D	...	8.00
Grey, boxes .... D	...	28.00
Ammoniac, tears, bags .... D	.85	.90
Angelica Root, dom. bags .... D	.14	.15
Angostura Bark, bags .... D	.08	.10
Anise, Levant bags .... D	.15	.16
Russian, bags .... D	.14	.15
Star, cases .... D	.12	.12%
Spanish, bags .... D	.15	.16
Anatto Seed, 200 D bags .... D	.20	.22
ARABIC GUM,		
White, No. 1, 200 D bags .... D	.26	.28
Seconds, 250 D bags .... D	.34	.36
Sorbs, amber, 200 D bags, bbls. D	.12%	.13
Powd., USP, 300 D bbls. .... D	.19	.20
Arca Nuts, 150 D bags .... D	...	.09
Powd., 200 D bbls. .... D	...	.11
Arnica Flowers, bales .... D	.11%	.13
Root, Bags .... D	.25	.25
Arrowroot, Amer. powd bbls. .... D	.06%	.09%
St. Vincent, powd. bbls. .... D	.16	.16%
Asafoetida, USP, 250 D cases .... D	.20	.21
Powd. 50 D bxs .... D	.46	.47
BALM GILEAD BUDS, bags .... D	.50	.55
Balmory Herb, bales .... D	...	.14

CENTRAL DYESTUFF & CHEMICAL  
COMPANY

## BENZIDINE

DYESTUFF AND INTERMEDIATE  
MANUFACTURERS

OFFICE AND WORKS

NEWARK, N. J.

**STERLING BRAND**  
**BORAX**  
AND  
**BORACIC ACID**  
Fifteen years on the Market  
and never a complaint  
**STERLING BORAX COMPANY**  
HARRIS TRUST BUILDING  
CHICAGO, U.S.A.



## NAPHTHOL GREEN

We are the largest manufacturers in America of NAPHTHOL GREEN—universally admitted to be the fastest to light Acid Green—and best for money value.

## AMIDINE FAST RED F

A fast direct cotton red, suitable for unions, half silk work. Produces fast shades of red, which can be aftertreated.

## AMALTHION BORDEAUX 5B

A new sulphur color of perfect solubility on the blue tone. Produces maroon shades of good brilliancy and fastness.

**JOHN CAMPBELL & CO.**  
75 Hudson Street, New York  
American Dyestuff Manufacturers

Boston

Chicago  
SalisburyProvidence  
Montreal

Philadelphia

"STANDARDS EVERYWHERE"

## Crude Drugs

BALSAMS								
Copaiba, Para, 80 lb c.	23	25	Cannabis, true imp. bags	4.50	5.00	Cloves, Zanzibar, 135 lb bales	32	34
South American, 80 lb c.	27	33	American (no assay) bales	.80	.85	Ambonyas, bales	...	38
Fir Canada, cans	12.80	13.00	USP	1.70	1.85	Penang, bales	...	45
Oregon, bbls., cans	1.45	1.55	Cantharides, Chinese cases	1.05	1.10	Cochineal, USP, boxes	35	37
Pern, 120 lb cases	2.00	2.10	Powdered, boxes	1.20	1.25	Coca Leaves, Huancayo bags	...	55
Tolu, 90 lb cases	2.00	2.25	Cantharides, Russian, cases	1.10	1.20	Truxillo, bags	...	56
Bamboo Brier Root, bags	.05 1/4	.06	Powdered, boxes	1.20	1.25	Cohosh Root, Black bags	13	14
Barberry Bark, tree bales	.14	.16	Caraway Seed, African, bags	.25	.26	Blue, bags	15	16
Root, bags	.45	.48	Dutch, 110 lb bags	.26	.27	Colchicum Root, bags	.08	.09
Sarberry Bark, bales	.11	.12	Cardamom bleach cases	1.60	2.00	Seed, bags	.10	.11
Wax, bbls.	.26	.27	Decorticated, cases	1.75	1.85	Colombo Root, whole bags	.02 1/4	.03
Belladonna Leaves, bales	.28	.30	Green, grinding, bags	1.30	1.40	Colocynth, apples, cases, bales	.17	.22
Root, bags	.12 1/4	.13	Carnauba Wax, Flor. bags	.52	.53	Pulp, USP, bales	.33	.35
Hes Wax, white bbls.	.36	.38	No. 1 N Country bags	.40	.42	Coltsfoot Leaves, bags	.06	.07
Yellow, refined, bbls.	.21 1/4	.22	No. 2 N Country bags	.24	.26	Comfrey Root, bags	.13	.14
Crude, bags	.23	.24	No. 3 Fatty Gray, bags	.18 1/4	.19 1/4	Condurango Bark, bales	.20	.22
Benzoin Gum, Siam, boxes	1.30	1.35	No. 3 Chalky, bags	.19 1/4	.20	Conium Root, bags	...	16
Sumatra, 80 lb boxes	.27	.28	Cascara Amara, 150 lb bales	.36	.32	Copaiba Balsam Para, see Balsams		
Berberis Aquifolium Root, bags	.14 1/4	.15	Cascara Sagrada, bales, Old	.29	.32	Copal Gum	.12	.13 1/4
Beth Root, bags	.30	.32	New	.28	.30	Coriander Seed, Bombay bags	.05	.07
Blackhaw Bark, root, bales	.39	.40	Cascarilla Bark, quills bales	.36	.40	Mogadore, bags	.11	.11 1/4
Tree, bales	.27	.28	Siftings, bbls.	.20	.25	Morocco, bags	.11	.11 1/4
Blood Root, bags	.23	.25	Cassia Buds, 60 lb cases	.12 1/4	.13	Bleached, bags	.15	.15 1/4
Blueflag Root, bags	.23	.25	China, Whole Rolls, cases	.10	.10 1/4	Corn Silk, bales	.05 1/4	.06
Bolide Leaves, bales	.20	.21	Saigon, assort. bales	.24	.29	Cotton Root Bark, bales	.14	.16
Bonnet Herb, bales	.08	.11	Cassia Fistula, baskets	.10	.11	Cramp Bark, so-called bales	...	.08
Borage Flowers, bales	.13	.20	Castor Beans, bags	.03	.03 1/4	True, bags	.40	.42
Bryonia Root, bags	.09	.10	Castoreum, 1 lb bot.	4.00	4.50	Cranesbill Root, bags	.10	.11
BUCHU LEAVES, short, 250 lb			Catechu Gum, bags	.09	.10	CUBES BERRIES, XX bags	.70	.75
bales	.81	.83	Catnip Herb, bales	.15	.17	Powdered, boxes	.75	.79
Long, bales	.90	.92	Celery Seed, 220 lb bags	.27	.27 1/4	Culvers Root, bags	.35	.38
Loos, bales	...	...	Cereno Wax, white bags	.09	.10	Cumin Seed, Levant bags	.27	.28
Buckthorn Bark, bags	.06	.07	Yellow, 200 lb bags	.08	.09	Morocco, bags	.27	.29
Burdock Root, bags	.16	.18	CHANOMILE FLOWERS, Roman			Cuttlefish Bone, Trieste, straps	.14	.15
Burgundy Pitch, dom. 110 lb staves	...	...	bales	.90	.95	Jewels, large, straps	...	.55
Gross for net.	...	.06	Hung. cases bales	.08	.09	Small, straps	...	.35
Calabar Beans, bags	.12	.14	Charcoal Willow, powd. bbls.	.06	.06 1/4	French, straps	.15	.16
Calamus Root, bleached cases	.35	.38	Wood, powd. bbls.	.04	.04	Powdered, boxes	...	.18
Unbleached, bags	.07 1/4	.08	Chestnut Bark, bags	.07	.08	Broken, boxes	.07	.07 1/4
Calendula Petals, imp. bales	...	.30	Herb, bales	.06	.06 1/4	Damar Gum, 136 lb cases	.24	.25
Calisaya Bark, bales, powd.	.27	.30	Chicle Gum, bags	.75	1.00	Damiana Leaves, bales	...	...
Campher, see Chemicals	...	...	Chiretta, bales	.10	.12	Pandelion Root, imp, bags	.38	.40
Canary Seed, Broken, bales	...	.06	Cinchona Bark, red quills bales	.45	.50	Deer Tongue Leaves, bales	.09	.10
South American, bags	.05 1/4	.06	Broken, bales, East Indian	.26	.28	Digitalis Leaves, bales	.07	.08
Candelilla Wax, bags	.23	.25	Ceylon, Broken, bales	.15	.20	Dill Seed, bags	.08 1/4	.09
Canela Alba Bark, bales	.51	.52	Cinnamon, Ceylon, bales	.22	.22 1/4			
			... 1 lb bot.	2.75	3.75			
			Clover Tops, bags	.25	.27			

ALBERT VERLEY  
Isle St. Denis, France

AROMATIC CHEMICALS  
FLORAL SYNTHETICS  
for perfumers and soap manufacturers

DELPHI PRODUCTS

Chicago  
Main 4762

INCORPORATED

New York  
Beekman 1514

## Coal Tar Disinfectants

Phenol coefficients 2 to 20. Rideal-Walker Test.  
Produce white emulsion free from deposit. Phenol  
coefficients guaranteed.

BAIRD & McGUIRE, Inc.  
Holbrook, Mass.

P. O. Box 473

New York Representative  
JAYNE & SIDEBOTTOM, INC. 17 Battery Place

QUALITY

**B.G. FEINBERG**

111-WATER STREET  
NEW YORK CITY

**BENZOIC**  
ACID and SODA

ARSENIC

CARBON TETRACHLORIDE

VALUE

## Nitrate of Soda

Chilean Nitrate Committee

DR. W. S. MYERS, Director

U. S. Delegation

25 MADISON AVE.

NEW YORK



## Crude Drugs

Dogwood Bark, Jamaica bags...lb	.10	.11	Grindelia Roberts Herb, bales...lb	.07	.07%	LADY SLIPPER ROOT, bags...lb	.51	.65
Flowers, bales...lb	...	.15	Guaiac Gum, 80 lb cases...lb	.28	.30	Larkspur Seed, bags...lb	1.40	2.00
Dogwood Root, USP, cut bags...lb	.12	.14	Guarana, tins, cases...lb	.65	.75	Laurel Leaves, bales...lb	...	.04%
Dragons Blood, mass cases...lb	.45	.50	GUM, see Arabic Gum, etc.	...	...	Lavender Flowers, Ordinary...lb	.32	.35
Reeds, boxes...lb	1.15	1.25	HELLEBORE ROOT,	...	...	Selected...lb	.38	.42
ECHINACEA ROOT, bags...lb	.28	.30	Black, bbls...lb	.08	.10	Leeches, tube...Per 100	...	6.00
Elecampane Root, bags...lb	.09	.10	Powdered...lb	.15	.17	Lemon Peel, bags...lb	.09	.10
Elder Flowers, bags...lb	.14	.16	White, Powd. 250 lb bbls...lb	.15	.16	Licorice Root, Russian whole...lb	.07%	.08
Klemi Gum, 80 lb cases...lb	.10	.11	Helonias Root, (unicorn false) bags...lb	.88	.90	Spanish, natural bales...lb	.09	.09%
Elm Bark, select 5 lb bundles cases lb	.27	.28	Hemp Seed, Manchurian bags...lb	.05	.05%	Powdered, bbls...lb	.09	.09%
Grinding, bags...lb	.10	.12	Chilian, bags...lb	...	...	Selected, 2 & 5 lb bundles...lb	.16	.20
Powdered, bbls...lb	.23	.24	Henbane Leaves, bales, USP...lb	.37	.39	Cuttings, 125 lb bags...lb	.07	.07%
ERGOT, 150-200 lb bags...lb	.35	.37	No assay...lb	.28	.32	Greek, 150 lb bales...lb	.03	.03%
Eucalyptus Leaves, bales...lb	...	.05	Henna Leaves...lb	.12	.13	Life Everlasting Herbs, bales...lb	.05	.06
Euphorbia Pilulifera Herb, bags...lb	.15	.17	Powdered...lb	.15	.16	Lime Juice, clarified bbls...gal	.50	.60
Euphorbium Gum, cases...lb	...	.32	Honey, Calif., 120 lb cases...lb	.11%	.12	Linden Flowers, with leaves, bales lb	.14	.16
Powdered, boxes...lb	...	.40	Hops, N. Y. prime bales...lb	.23	.25	Without leaves, bales...lb	.21	.23
Fennel Seed, French, bags...lb	.15	.16	Pacific Coast prime bales...lb	.20	.23	Liverwort Leaves, bales...lb	.20	.22
German, bags...lb	.18	.19	Horhound Herb, bales...lb	.10	.11	Lobelia Herb, bales...lb	.25	.27
Indian, bags...lb	.12	.12%	Horsetail Rush, bags...lb	...	.16	Lobelia Seed, bags...lb	.02	.05
Flax Seed, whole 180 lb bbls...ea	13.00	13.50	India Gum, see Karaya	...	...	Lovage Root, Imported, bags...lb	.20	.22
Ground, 180 lb bbls...lb	.07%	.08	INSECT FLOWERS, open whole bales...lb	...	...	Lupulin, boxes...lb	1.40	1.50
Foenugreek Seed, 200 lb bags...lb	.05%	.06	Closed whole, bales...lb	...	...	Domestic...lb	1.50	1.40
Fish Berries, 100-125 lb bags...lb	.03%	.05%	Powdered, pure 200 lb bbls...lb	.65	.68	Lycodium, 88 lb cases...lb	.35	.37
Fringe Tree Bark, bags...lb	.19	.20	Flowers and stems, 50 p. e. 200 lb bbls...lb	.38	.40	MACE, Shaw, No. 1 cases...lb	.62	.63
GALANGAL ROOT, bags...lb	.08	.09	Ipecac Root, Cartagena, bags...lb	1.90	1.95	Banda, No. 1 cases...lb	.65	.67
Galbanum Gum, cases...lb	.80	.95	Powdered, 220 lb bbls, boxes...lb	2.10	2.20	Batavia, No. 2 cases...lb	.68	.69
Gambler Gum, bags...lb	.11%	.12%	Rio Whole, bags...lb	1.90	1.95	West Indian, cases...lb	.58	.60
Gamboge Gum, 160 lb cases...lb	.85	.90	Powdered, 200 lb bbls, bxs...lb	2.10	2.20	Maitra Flowers, blue bales...lb	.27	.29
Powdered, cases...lb	.90	1.00	Isinglass, American, 130 lb cases...lb	.75	.85	Black bales...lb	.28	.29
Gelsemium Root, bags...lb	.11	.11%	Russian (Beluga) bxs, cases...lb	4.50	5.50	Manna, large flake cases...lb	.76	.78
Gentian Root, bags...lb	.08%	.09	JABORANDI LEAVES, bales...lb	.16	.18	Small flake, cases...lb	.39	.41
Ginger, African, bags...lb	.16	.17	Jalap Root, whole, 150 lb bags...lb	.38	.40	Sorbs, cases...lb	.27	.29
Jamaica, grinding, bags bbls...lb	.33	.38	Powdered, USP, 250 lb bbls...lb	.40	.42	Mandrake Root, bags...lb	.21	.22
Japan, bags...lb	.17	.17%	Japan Wax, white bags...lb	.18%	.19	Mastle Gum, 120 lb cases...lb	.70	.72
Cochin, ABC & lemon, bags...lb	.24	.26	Job's Tears, white bags...lb	.25	.30	Mezerion Bark, bags...lb	.11	.12
Ginseng Root, cultivated, bags...lb	8.00	10.00	Juniper Berries, 125 lb bags...lb	.02%	.03%	Matico Leaves, bales...lb	.20	.22
Northwestern Wild, bags...lb	14.00	15.00	KAMALA, boxes...lb	1.35	1.45	Marjoram Leaves, German bales...lb	.13%	.14%
Southern Wild, bags...lb	10.00	12.00	Karaya Gum, powdered, bbls...lb	.15	.20	French, bales...lb	.03%	.05
Golden Seal Root, bags...lb	3.45	3.55	Kava Kava Root, bags...lb	.16	.17	Millet Seed, dom. yellow bags...lb	.04	.04%
Powdered, boxes...lb	3.70	3.75	Kiro Gum, black cases...lb	.50	.55	Montan, Wax, crude bags...lb	.04	...
Grains of Paradise, bags...lb	.12	.14	Kola Nuts, 150 lb bags...lb	.05	.06	Bleached...lb	...	...
			Kousoo Flowers, bags...lb	...	3.00	Moss, Iceland bales...lb	.08	.09
						Irish, bleached, bales...lb	.09	.10
						Mullein Flowers, tins...lb	1.15	1.20

## Gum Tragacanth

(Since '73)

M.L. BARRETT &amp; CO. Merchants

Essential Oils Pine Chemicals Synthetics Colors

233 WEST LAKE STREET - CHICAGO, ILL.

Established 1873

Cables: Lazernoo

## Chemical Works "Naarden" Ltd.

PHARMACEUTICAL  
PRODUCTS

NAARDEN (Holland)

Cable Address: CHEMISCHE-BUSSUM

P. B. 2 Bussum (Holland)

**CARUS  
CHEMICAL CO.**  
Manganese  
Sulphate  
LA SALLE  
ILL.

We offer for PROMPT delivery

## QUICKSILVER

(IN ORIGINAL BOTTLES)

ALL MERCURIAL SALTS  
AMMONIUM PERSULPHATE 98% PURE  
ROCHELLE SALTS  
STRYCHNINE  
FINE CHEMICALS, etc.

MAY & BAKER, L<sup>TD</sup>.

Manufacturing Chemists and Exporters

BATTERSEA, LONDON

ENGLAND

Cable Address: BISMUTH, LONDON

## Crude Drugs

Musk, pods, Cabardine, tins.....	16.00	17.00	Patchouli Leaves, bales.....	.23	.25	Rosemary Flowers, cases bales....	.28	.30
Tonquin.....	22.00	25.00	Pepper, black Sing. bags.....	.11	.11 1/2	Rose Petals, pale.....	.22	.25
Grain Cab.....	25.00	26.00	White, bags.....	.14	.14 1/2	Red.....	.65	.70
Tonquin.....	35.00	38.00	Peppers, red Mombaca, bags.....	.13	.16	Rue Herb, bales.....	.30	.35
Synthetic, see Chemicals.....			Cherries, bags.....	.14	.15	SABADILLA SEED, bags.....	.15	.16
Musk Root, Russian bags.....			Bombay, bags.....	.11 1/2	.13	Powder, bbls.....	.16	.17
Mustard Seed, Bari brown bags....	.08 1/2	.09	Japan, bags.....	.24	.26	Saffron Flowers, Amer. bales....	.78	.80
Bombay, brown.....	.08 1/2	.09	Pennyroyal Herb, bales.....	.08	.13	Valencia, 1 lb cans.....	30.50	32.00
California, brown.....	.08 1/2	.09	Peppermint Leaves, Imp. bales....	.25	.28	Sage, Dalmatian bales.....	.06	.06 1/2
Yellow.....	.09	.09	Cuts, bales.....	.25	.28	Greek, bales.....	.04 1/2	.05 1/2
Chinese yellow.....	.04	.04 1/2	Domestic leaf.....	.32	.34	Spanish, bales.....	.03	.03 1/2
English, yellow.....	.08 1/2	.09	Peru Balsam, see Balsams.....			Sandalwood, chips bags.....		.30
Dutch, yellow.....	.08	.08 1/2	Pitch Leaves, bags.....	.23	.25	Ground, bags.....		.35
Danish, yellow.....	.08 1/2	.09	Pimento, select bags.....	.05 1/2	.05 1/2	Sandrac Gum, 300 lb bbls....	.27	.30
Myrrh Gum, select 200 lb cases....	.25	.27	Pink Root, true bags.....		1.05	Sarsaparilla Root Honduras, bales	.81	.85
Seris, cases.....	.23	.25	Pitch, Burgundy, see Burgundy Pitch			Mexican, bales.....	.31	.32
NUTGALLS, Chinese, bags.....	.17	.18	Fleurisy Root, bags.....		.23	Sassafras Bark, ordinary bales....	.13	.15
Aleppy, bags.....	.14	.15	Plantain Leaves, bales.....		.15	Select, bales.....	.30	.32
Nutmegs, 110s cases.....	.35	.37	Pole Root, bags.....		.07 1/2	Savory Leaves, bales.....	.08 1/2	.09 1/2
75s, 80s cases.....	.39	.41	Pomegranate Bark, of root bags....		.30	Saw Palmetto Berries, bags.....	.10	.11
Nix Vomica Buttons, bags.....	.05	.06	Of Fruit, bags.....		.30	Scammony Resin, boxes.....	1.40	1.60
Powdered, 200 lb bbls.....	.08 1/2	.09	Of tree.....		.30	Scammony Root, bags.....	.06 1/2	.07
BAK BARK, red bags.....	.05	.06	Poppy Flowers, red bags.....	.25	.27	Senega Root, bags.....	.64	.66
White, bags.....	.06	.07	Poppy Seed, Dutch, bags.....	.09 1/2	.10	SENNA, Alex. 150 lb cases.....	.24	.25
Olibanum Gum, sift 280 lb cases....	.08 1/2	.10	German, bags.....		.10 1/2	Half Leaf, 350 lb bales.....	.17	.18
Tears, 280 lb cases.....	.12	.13	Turkish, bags.....	.06	.08	Siftings, 400 lb bales.....	.10 1/2	.11
No. 1, all white, 280 lb cases....	.21	.22	Blue Indian, bags.....	.08	.08 1/2	Powdered, 200 lb bbls.....	.12	.14
Opium, gum USP cases.....	8.00	10.00	White Indian, bags.....	.07	.07 1/2	Tinnersley, Job. 350 lb bbls....	.11	.12
Granular, cases.....	9.00	11.00	Prickly Ash Bark Southern, bags....	.14	.14 1/2	Grinding, 350 lb bales.....	.07	.09
Powdered, USP, cases.....	9.00	11.00	Northern, bags.....		.18	Powdered, 200 lb bbls.....	.09	.10
Orange Flowers, cases.....	.50	1.00	Prickly Ash Berries, bags.....	.16	.17	Pods, 350 lb bales.....	.12	.14
Orange Peel, bitter bags.....	.07 1/2	.07 1/2	Prince's Pine, bales.....	.35	.38	Serpentaria Root, bags.....	.80	.85
Sweet, bags.....	.08	.08 1/2	Pulsatilla Herb, bags.....	.20	.23	Shells, D.C., bags.....	.81	.82
Oris Root Florentine bold bags....	.07	.08	Pumpkin Seed, bags.....	.14	.16	V.S.O., bags.....	.81	.82
Powdered, 200 lb bbls.....	.11 1/2	.13	QUASSIA CHIPS, bags.....	.07	.08	Diamond I, bags.....	.80	.81
Verona, bags.....	.05	.06	Queen of the Meadow Herb, bags....		.06	Superfine, Orange, bags.....	.67	.68
Powdered, 200 lb bbls.....	.07 1/2	.08	Quince Seed, bags.....	.95	1.10	Fine, bags.....	.65	.66
Fingers, cases.....	.58	.60	RAPE SEED, South Amer. bags....	.06 1/2	.07	T.N., bags.....	.60	.61
Onokerite Wax, brown hard bags....	.22	.24	Dutch, bags.....	.06 1/2	.07	Orsel, A. C.....	.65	.66
Green, hard bags.....	.25	.26	Japanese, small, bags.....	.06 1/2	.06	Buton, bags.....	.73	.74
Refined, yellow bags.....			Raspberries, dried boxes.....	.58	.60	Bleached, ground, bbls.....	.62	.63
PAPRIKA, bags.....	.17	.22	Red Saunders.....	.17	.19	Bone dry, bbls.....	.70	.72
Hungarian.....	.27	.37	Rhatany Root, bags.....		.08 1/2	Simaruba Bark, bales.....	.09	.10
Pardra Brava Root, bags.....	.15	.16	RHUBARB, H. D., cases.....	.81	.83	Sideritis Herb, cut bags.....		.18
Parsley Seed, bags.....	.08 1/2	.09	Powdered, 200 lb bbls.....	.38	.40	Skullcap Leaves, bales.....		.28
			Rosemary Leaves, bales.....	.04 1/2	.05	Sloe Berries, bags.....	.03	.04

## SODIUM CYANIDE

Stanley Smith & Co., London  
(Ocean Chemical Co., Ltd.)

## WHITE ARSENIC 99%

Wheal Jewell & Marytavy Mines Ltd.,  
Devon, England

## NAPHTHALENE

## PYRIDINE

## CRESYLIC ACID

## CRESOL U. S. P.

Jas. Miller Son & Co., Ltd., Glasgow

## FULLER'S EARTH

Somerset Oxide & Ochre Co., Bristol,  
England, (Mines, Cornwall, England)

Inquiries Solicited

SOLE AGENTS IN U. S. A.

AMERICAN-BRITISH  
CHEMICAL SUPPLIES, INC.

ROOM 1505

15 East 26th Street, New York

Telephone: Madison Square 3312

# CLARENCE MORGAN & COMPANY

Gum Arabic  
Gum Tragacanth  
Indian Gum  
Vanilla Beans

For account of Thurston & Braidich

355 W. ONTARIO ST.

# CHICAGO

SUPERIOR 8870

# Crude Drugs

Snake Root, Canada natural bags. D	.40	: .42
Stripped, bags	...	: .55
SOAP BARK, whole, 150-200 lb		
bales	.08	: .09
Cut, 125-175 lb bags	.09 1/4	: .10
Crushed, 200 lb bbls.	.11 1/4	: .12 1/4
Powdered, 200 lb bbls.	.12	: .14
Spearment Leaves, American bales. D	.24	: .25
Spermacti, blocks cakes-cases. D	.39	: .41
Spikenard Root, bags	.26	: .28
Spruce Gum, boxes	1.00	: 1.50
Squaw Vine, bales	...	: .17
Stavemore Seed, bags	.42	: .45
Stone Root, bags	.09	: .10
Storax, liquid artif.	.70	: .75
Gen. USP	.90	: 1.00
St. Ignatius Beans, bags	.22	: .23
St. John's Bread, bags	.04	: .06
Stramonium Leaves, bales	.08	: .09
Stramonium Seed, bags	.12	: .13
Strophanthus Seed, Hispidus	.35	: .40
Kombe, bags	.30	: .35
Sunflower Seed, domestic bags	.07	: .07 1/4
South American, bags	.06	: .07 1/4
TAGALDER BARK, bags	...	: .05
Tamarinds, bbls.	...	: .06 1/4
Kegs	...	: 3.50
Tansy Herb, bales	.18	: .20
Tar, Barbados, 50 gal. bbls.	1.60	: 1.75
Thus Gum, 280 lb bbls.	...	: .05 1/4
Thyme, Spanish bales	.07	: .07 1/4
French, bales	.08 1/4	: .09
Tilia, See Linden		
Tolu Balsam, see Balsams		
Tongo Bark, bags	.30	: .31
Tonka Beans, Angostura, cases	2.25	: 2.35
Para, cases	.75	: .80
Surinam, cases	.80	: .85

Tragacanth Gum, No. 1, ribbon		
160 lb ca.	1.30	: 1.35
No. 2 to No. 6, cases	1.00	: 1.30
Powdered, 50 lb boxes	.95	: 1.00
Turkish, cases	.75	: .90
Turmeric Root, Madras bags	.10 1/4	: .11
Aleppy, bags	.14	: .15
Powdered	.15	: .16
China, bags	.09	: .10
Turpentine, Venice, true 80 lb ca.	.16 1/4	: .18
Artificial, 80 lb cases	.14	: .15
Spirits, see Naval Stores		
UNICORN ROOT, false, see Helonias		
True, see Aletris		
Uva Ursi Leaves, bales	.05 1/4	: .06
VALERIAN ROOT, Belgian bags	.08 1/4	: .09
Vanilla Beans Mex. whole cases	10.50	: 12.50
Cus, cases	7.00	: 7.50
Bourbon, cases	7.50	: 8.00
South American, cases	6.00	: 6.25
Tahiti, yellow label cases	...	: ...
Green Label, cases	...	: ...
Violet Flowers, bags	.65	: .70
Wahoo BARK, of root bags	1.00	: 1.05
Of Tree, bags	.46	: .48
White Pine Bark, rosed, bags	.07	: .08
White Poplar Bark, bags	.04	: .05
Wild Cherry Bark, thin green		
Rosod, bales	.16	: .17
Thick Rosod, bales	.09	: .10
Thin Natural, bales	.14	: .15
Thick Natural, bales	.07	: .08
Willow, bark bags	...	: .06
White, bags	...	: .15
Witch Hazel Bark, bags	...	: .07
Witch Hazel Leaves, bales	...	: .09
Worm Seed, American bags	.08 1/4	: .09
Levant bags	...	: 4.00
Wormwood Herb, imported bales	...	: .10
Yacca Gum, red	.04	: .04 1/4
Ground	.05 1/4	: .06 1/4
YELLOW DOCK ROOT, bags	.12	: .14
Yellow Parilla Root, bags	.16	: .17
Yerba Santa, bags	.09	: .10
Zedoary Root, bags	.08	: .10

# Essential Oils

Almond Bitter USP 5 lb bots	D	3.25	: 3.15
Bitter ff PA 5 lb bots	D	3.50	: 3.75
Artificial (See Benzaldehyde-Chemicals)			
Sweet, 50 lb cans	D	.53	: .54
Peach Kernel, 55 lb tins	D	.24	: .25
Apricot, see Peach Kernel			
Amber, crude 25 lb tins	D	.70	: .75
Rectified, 25 lb tins	D	.90	: 1.00
Angelica Root, 1 lb bot	D	38.00	: 39.00
Seed, 1 lb bot	D	36.00	: 38.00
ANISE, Tech., 66 lb case	D	.40	: .42
USP, 50 lb tins	D	.41	: .45
Bay, 25 lb tins	D	2.50	: 2.60
Bergamot, 25 lb coppers	D	2.90	: 3.10
Artificial, 25 lb cans	D	2.00	: 2.25
Birch Tar, rect. 5 lb bot	D	1.10	: 1.15
Crude, 50 lb tins	D	.60	: .65
Bols de Rose, 25 lb tins	D	3.25	: 3.50
Cade, USP, 25 lb tins	D	.35	: .40
USP, 5 lb bot	D	.45	: .50
Cajuput, native, 50 lb tins	D	.80	: .85
Calamus, 5 lb bot	D	4.25	: 4.75
Camphor, heavy, 1000 lb drums	D	.13 1/4	: .14 1/4
Japanese, white, 72 lb cases	D	.13 1/4	: .15
White, 1000 lb drums	D	.13	: .15
Cananga, native 25 lb tins	D	2.15	: 2.40
Rectified, 25 lb tins	D	2.75	: 3.00
Caraway, USP	D	8.25	: 8.50
Cardamom, USP, 1 lb bot	D	30.00	: 33.00
Carrot, 5 lb bot	D	17.00	: 18.00
CASSIA, 80-85 p.c. 400 lb drms	D	1.65	: 1.75
Redistilled, USP, 50 lb cans	D	2.25	: 2.35
Cedar Leaf, 50 lb tins	D	1.00	: 1.10
Cedar Wood, light 1000 lb drums	D	.28	: .30
Celery, 1 lb bot	D	10.50	: 11.00
Cinnamon, Ceylon, 1 lb bot	D	11.00	: 12.50
Leaf, 5 lb bot	D	...	: 2.00
CITRONELLA, Ceylon, 1000 lb drs	D	.80	: .85
50 lb tins	D	.82	: .87
Java, 400 lb drums	D	1.05	: 1.10
50 lb tins	D	1.10	: 1.15
Cloves, USP, 50 lb cans	D	2.35	: 2.40
6 lb bot	D	2.45	: 2.55

"Our Quality is Always Higher Than Our Price"

## OIL LAVENDER FLEURS

So seldom do high quality and low price coincide that our present offers on Oil Lavender Fleurs have unusual significance.

We offer an oil of exceptional odor value and, judged from the chemical point of view, of better than U. S. P. quality at a price which certainly cannot be bettered until the new crop is harvested in the late Summer.

**UNGERER & COMPANY**

124 W. 19th St., New York  
Tel. Watkins 2914-2915

CHIRIS

## EUCALYPTOL

U. S. P.

Pure and free from all objectionable foreign odor and flavor.

Especially recommended for all preparations demanding a product of high quality.

PARIS



LONDON

**Antoine Chiris Company**

147-153 Waverly Place, New York, N. Y.

CANADIAN OFFICE: 489 St. Paul Street, W., Montreal, Can.

CHICAGO OFFICE: 159 W. Austin Avenue, Chicago, Ill.



## Essential Oils

Cosale, USP, 50 lb tins.....	35	: 40
Coriander, USP, 1 lb bot.....	14.75	: 15.00
Croton, USP, 25 lb tins.....	1.00	: 1.10
Cubeba, USP, 5 lb bot.....	8.25	: 8.50
Cumin, 1 lb bot.....	14.00	: 15.00
Dill, 1 lb bot.....	4.25	: 5.00
Erigeron, 20 lb tins.....	1.30	: 1.35
EUCALYPTUS, Austl. USP		
50 lb cs.....	.75	: .85
500 lb drums.....	..	: .75
Fennel USP, 25 lb tins.....	1.00	: 1.05
Geranium, Algerian, 25 lb tins..	7.25	: 7.75
Gourdon, 25 lb tins.....	6.75	: 7.00
Turkish, 25 lb tins.....	4.50	: 4.75
Ginger, 1 lb bot.....	5.75	: 6.00
Gingergrass, 25 lb tins.....	2.75	: 3.00
Hemlock, 50 lb cans.....	1.10	: 1.20
Juniper Berries, USP, 25 lb tins..	1.25	: 1.35
Wood, 50 lb tins.....	.60	: .70
Lavender, USP, 28 lb cans.....	4.50	: 6.00
Spike, Spanish, 50 lb cans.....	.90	: 1.00
LEMON, Ital. USP, 25 lb tins.....	.75	: .90
American, USP, 25 lb tins.....	.70	: .75
Lemonogram, native, 50 lb cans..	.80	: .85
Limes, express, 25 lb tins.....	1.70	: 1.80
Distilled, 25 lb tins.....	1.00	: 1.05
Linaloe, Mex. 80 lb cans.....	3.00	: 3.10
Mace, distilled, 50 lb tins.....	1.25	: 1.35
Mirbane, ref., see Ar. Chemicals	..	: ..
Mustard, USP, 1 lb bot.....	..	: 14.00
Artif., USP, 1 lb bot.....	4.00	: 4.25
Neroli, Bigarade, 1/4 & 1 lb bot..	40.00	: 60.00
Petals, 1 lb bot.....	70.00	: 120.00
Artificial, 1 lb bot.....	10.00	: 25.00
Nutmeg, USP, 25 lb tins.....	1.25	: 1.35
Orange, bitter, 25 lb tins.....	2.65	: 2.75
Sweet, W. Ind., 25 lb tins.....	2.35	: 2.45
Italian, 25 lb cop.....	3.00	: 3.25
American, 25 lb tins.....	2.80	: 2.85
Origanum, 50 lb cans tech.....	.30	: .35
Parsley, 1 lb bot.....	3.50	: 4.00
Patchouli, 5 lb bot.....	6.75	: 7.00
Pennyroyal, dom. 25 lb tins.....	1.90	: 2.25
Imported, 25 lb tins.....	1.80	: 2.00
PEPPERMINT, nat. 60 lb cans..	3.25	: 3.45
Redist., USP, 60 lb cans.....	3.60	: 3.70
Petit Grain, S. Am. 25 lb tins..	1.75	: 1.85
French, 1 lb bot.....	7.00	: 8.00
Italian, 25 lb tins.....	2.25	: 2.35

Pimento, 25 lb tins.....	2.00	: 2.10
Pinus Sylvestris, 25 lb tins.....	..	: 1.75
Pumilio, USP, 25 lb tins.....	..	: 2.75
Rose, Fr., 8, 16 & 32 oz. pkgs..	..	: 8.00
Bulg., 8, 16 & 32 oz. pkgs..	8.00	: 9.00
Artificial, 1 lb bot.....	2.00	: 3.00
Rosemary, USP, 27 1/4 lb tins....	.40	: .43
1000 lb drums.....	..	: .37 1/2
Tech., 27 1/4 lb tins.....	.35	: .40
Rue, 1 lb bot.....	..	: 4.25
Sandalwood, E. Ind. USP, 76 lb cases	6.75	: 6.90
W. Indian, (Amyris) 25 lb tins..	3.60	: 3.25
Sassafras, USP, 50 lb cans.....	1.80	: 2.05
Artificial, 1000 lb drs, 60 lb cans	.37	: .38
Savin, 5 lb tins.....	2.75	: 3.00
Spearmint, USP, 60 lb cases.....	2.40	: 2.50
Spruce, 50 lb tins.....	1.10	: 1.20
Tansy Amer., 20 lb tins.....	4.25	: 4.35
Tar, 50 gal. bbls.....	.25	: .26
Refined, USP 25 lb tins.....	..	: ..
Thyme, red, USP 25 lb tins.....	1.00	: 1.05
White, USP 25 lb tins.....	1.15	: 1.25
Tech., 110 lb drums.....	.85	: .90
Vetiver, Bourbon, 1 lb bot.....	8.50	: 9.00
Java, 1 lb bot.....	28.00	: 30.00
Wine, heavy 1 lb bot.....	..	: 2.75

WINTERGREEN		
Sweet bch., 25 lb tins.....	2.50	: 3.00
Southern, 25 lb tins.....	1.85	: 2.00
Gaultheria, true 25 lb tins.....	7.00	: 8.00
Southern, 25 lb tins.....	4.00	: 4.25
Synthetic, USP, 50 lb cans.....	..	: .47
Wormseed Bait., USP, 25 lb tins..	6.75	: 7.00
Wormwood dom., 25 lb tins.....	3.75	: 4.00
Ylang Ylang, Bourbon 10 lb tins	..	: ..
No. 1.....	7.00	: 9.00
No. 2.....	5.00	: 6.00
Manilla, 1 lb bot.....	28.00	: 35.00
Artificial, 1 lb bot.....	10.00	: 12.00

## OLEORESINS

Aspidium, USP, 1 lb bot.....	2.75	: 3.00
Capitum, USP, 5 lb bot.....	2.50	: 2.75
Ginger, 5 lb bot.....	2.00	: 2.10
Cubeb, USP, 1 lb bot.....	4.50	: 4.75
Malefens, See Aspidium	..	: ..
Orrie, 1 lb bot.....	..	: 13.00
Pepper, black, USP, 1 lb bot.....	3.50	: 4.00
Vanilla, 1 lb bot.....	12.00	: 13.00

## Aromatic Chemicals

## NATURAL DERIVATIVES

Anethol, 2 lb bot.....	1.25	: 1.75
Borneol, 1 lb bot.....	..	: 3.50
CITRAL, 25 lb cans.....	2.75	: 3.00
Citronellal, 1 lb bot.....	2.00	: 2.25
EUCALYPTOL, USP, 25 lb cans..	1.00	: 1.05
Eugenol, USP, 25 lb cans.....	3.25	: 3.50
Geraniol, Domestic, 50 lb cans..	3.25	: 3.50
Imported, 5 lb bot.....	4.25	: 5.50
Extra.....	..	: ..
Iso-Eugenol, 1 lb bot.....	4.50	: 5.00
Imported.....	5.50	: 6.50
Linalool, 5 lb bot.....	8.00	: 9.00
MENTHOL, 60 lb cans.....	..	: 12.75
Less cases, 5 lb cans.....	..	: 13.25
Rhodinol, 1 lb bot.....	15.00	: 20.00
SAFROL, 60 lb cans.....	.48	: .50
Thymol, USP, 25 lb tins.....	3.25	: 3.50

## SYNTHETIC AROMATICS

Acetaldehyde, 50% aol pure, 5 lb bot..	1.75	: 2.00
Acetophenone CP, 1 lb bot.....	4.75	: 5.00
Aldehyde, C-8 (Octyl), 1 lb bot..	45.00	: 60.00
Aldehyde, C-9 (Nonyl), 1 lb bot..	70.00	: 75.00
Aldehyde, C-10 (Decyl), 1 lb bot..	50.00	: 58.00
Aldehyde, C-12 (Dodecyl), 1 lb bot..	27.50	: 32.50
Aldehyde, C-14, 1 lb bot.....	22.50	: 25.00
Aldehyde, C-16, 1 lb bot.....	70.00	: 80.00
Aubepine, see Anisic Aldehyde		
Amyl Acetate, pure, 5 gal. cans gal	7.00	: 8.00
Amyl Butyrate, 1 lb bot.....	2.00	: 2.10
Amyl Formate, 1 lb bot.....	2.25	: 2.00
Amyl Phenyl Acetate, 1 lb bot..	8.50	: 9.00
ANYL SALICYLATE, dom. 100 lb chys.		
Imported.....	1.45	: 1.50
Amyl Valerate, 5 lb bot.....	4.75	: 5.00
Anisic Aldehyde, 1 lb bot.....	3.75	: 4.50
BENZALDEHYDE, USP, 40 lb chys..	1.50	: 1.60
FFC, 40 lb chys.....	1.60	: 1.75
Benzole Ether, See Ethyl Benzoate		
Benzophenone, 1 lb bot.....	6.75	: 7.00
Benzyl Acetate, 100 lb chys.....	1.55	: 1.75

OLEO RESIN  
CUBEBSSUGAR  
COLORING

"2 STAR"

W. J. BUSH &amp; CO., Inc.

370 SEVENTH AVE., NEW YORK, N. Y.

Also at 394 St. Paul St. W., Montreal

OILS  
ESSENTIAL  
OILS

AND

## Aromatic Chemicals

Manufacturers  
Importers  
Exporters

Correspondence Solicited

FRITZSCHE BROTHERS

Inc.

NEW YORK

**ESTABLISHED 1895**

**MOHAWK BRAND**  
**OIL PEPPERMINT**  
 (NATURAL AND REDISTILLED)  
**AMERICAN**

PACKED AS FOLLOWS:  
 3-20 LB. TINS TO A CASE  
 5-10 LB. TINS TO A CASE  
 10-5 LB. TINS TO A CASE  
 50-1 LB. BOTTLES TO A CASE

**ALL PACKAGES INCLUSIVE**

Preferred and specified by all discriminating Manufacturers as a product of unexcelled purity and delicacy of flavor

*Contracts for 1924 requirements now being placed*

**MOHAWK**



**BRAND**



**MAGNUS, MABEE & REYNARD, INC. NEW YORK U.S.A.**





**LES USINES**

**ALLONDON**  
 LA PLAINE—GENEVA  
 SWITZERLAND

**Diethylbarbituric  
 Acid**

**J. E. DOCKENDORFF & CO.**  
 Sole Agents and Representatives  
 20 BROAD ST., NEW YORK

Tel. Rector 4333-4 Cable "Dockendorf"

## Aromatic Chemicals

Benzyl Alcohol, 5 lb bot.....lb	1.60	: 1.70	Iso-Butyl Benzoate, 5 lb bot....lb	4.75	: 5.00	Skatol, 1 oz. bot.....oz	8.00	: 9.00
BENZYL BENZOATE, 5 lb bot....lb	1.60	: 1.75	Iso-Safrol, 1 lb bot. Imported...lb	5.25	: 5.50	Terpinyl Acetate, 25 lb cans....lb	1.65	: 1.85
Medicinal FFC.....lb	1.75	: 2.00	Domestic, 5 lb bot.....lb	4.00	: 4.25	TERPINEOL, CP, 1000 lb drums..lb	.50	: .51
Benzyl Butyrate, C.P., 1 lb bot...lb	5.50	: 6.00	Linalyl Acetate, 1 lb bot. Dom...lb	8.00	: 9.50	Cans, 50 lb.....lb	.54	: .55
Benzyl Cinnamate, 1 lb bot.....lb	10.00	: 10.50	Imp., 1 lb bot.....lb	8.50	: 10.00	Imported, 25 lb cans.....lb	1.20	: 1.30
Benzyl Formate, 1 lb bot.....lb	3.00	: 3.25	Linalyl Benzoate, 1 lb bot.....lb	13.00	: 14.00	VANILLIN, USP, 500 oz. cans...oz	...	: .54%
Benzyl Propionate, 1 lb bot.....lb	5.00	: 5.25	Linalyl Formate, 5 lb bot.....lb	10.50	: 12.00	Cans, 16 oz., 80 oz.....oz	.55	: .56
Bornyl Acetate, 1 lb bot.....lb	2.75	: 3.25	METHYL ANTHRANILATE dom.,			Valerianic Ether. See Ethyl Valerate		
Bromistrol, 25 lb kegs.....lb	4.00	: 4.25	1 lb bot.....lb	3.25	: 3.75	Yara Yara, 1 lb cans.....lb	1.75	: 2.00
Butyric Ether. See Ethyl Butyrate			Imported.....lb	4.50	: 5.00			
Cinnamic Acid, 5 lb cans.....lb	3.00	: 3.25	Methyl Benzoate, 5 lb bot. Import..lb	2.00	: 2.25	PERFUMERS' SUNDRIES		
Cinnamic Alcohol, Liquid 1 lb bot..lb	10.00	: 14.00	Domestic, 5 lb bot.....lb	1.75	: 2.00	Almond Meal, 25 lb cans.....lb	.28	: .30
Crystallizable.....lb	12.00	: 16.00	Methyl Cinnamate, 1 lb bot.....lb	3.75	: 4.00	Ambergris, black, bxs.....oz	...	: 8.00
Cinnamic Aldehyde, 1 lb bot....lb	3.20	: 3.50	Methyl Heptenone, 1 lb bot.....lb	8.00	: 8.25	Ambergris, gray, bxs.....oz	...	: 28.00
CITRONELLOL, 1 lb bot.....lb	8.00	: 12.00	Methyl Paracresol, 1 lb bot.....lb	8.00	: 9.00	Balsam Copaiba, Para, 80 lb cases..lb	.23	: .25
Citronellyl Acetate, 1 lb bot.....lb	13.00	: 14.00	Methyl Phenylacetate, 5 lb bot...lb	12.00	: 14.00	South American, 80 lb cases..lb	.27	: .28
COUMARIN, 25 lb cans.....lb	3.85	: 4.00	METHYL SALICYLATE, USP 500 lb			Balsam Peru, 120 lb cases.....lb	2.00	: 2.10
DIETHYL PHTHALATE, 25 lb cans..lb	.50	: .60	drums.....lb	...	: .45	Balsam Tolu, 90 lb cases.....lb	2.00	: 2.25
1000 lb drz.....lb	.50	: .55	50 lb cases.....lb	...	: .47	Benzoin Gum, Siam, bxs.....lb	1.15	: 1.20
Diphenyl oxide, 25 lb tins.....lb	.85	: .90	Second Hands.....lb	.45	: .46	Castoreum, 1 lb bot.....lb	4.00	: 4.50
Ethyl Acetate, pure, 5 lb bot....lb	.45	: .50	Mirbane, rect., 1000 lb drums...lb	12 1/2	: .14	Chalk, preelp. light, 175 lb bbls..lb	.04 1/2	: .05
Ethyl Benzoate, 5 lb bot.....lb	1.85	: 2.00	Musk Ambrette, 1 lb cans.....lb	15.00	: 16.00	Cherry Laurel Water, 5 gal cans.gal	1.15	: 1.25
Ethyl Butyrate, 5 lb bot.....lb	2.00	: 2.25	Musk Ketone, 1 lb cans.....lb	15.00	: 16.00	Civet Abyssin, horns.....oz	2.75	: 3.75
Ethyl Caproate, 1 lb bot.....lb	3.25	: 3.50	Musk Xylene, 5 lb cans.....lb	4.25	: 4.50	Labdanum, 5 lb bot.....lb	...	: 8.00
Ethyl Cinnamate, 1 lb bot.....lb	3.75	: 4.00	Nerolin, 1 lb cans.....lb	1.65	: 2.00	Lanolin hydrous, 350 lb bbls.....lb	.21	: .22
Ethyl Formate, 5 lb bot.....lb	2.00	: 2.10	Oenanthalic Ether, 100%, 1 lb bot..lb	2.25	: 3.00	Anhydrous, 350 lb bbls.....lb	.23	: .24
Ethyl-methyl Paracresol, 1 lb bot..lb	3.25	: 3.50	Phenylacetaldehyde, Dom.,			Musk pods, Cabardine, tins....oz	16.00	: 17.00
Ethyl Propionate, 1 lb bot.....lb	3.25	: 2.50	1 lb bot., 50 pc.....lb	9.50	: 10.50	Tonquin, tins.....oz	22.00	: 25.00
Ethyl Valerate, 5 lb bot.....lb	4.50	: 4.75	Imported, 50 pc.....lb	10.00	: 12.00	Grains, Cabardine, tins.....oz	25.00	: 26.00
Ethyl Salicylate, 5 lb bot.....lb	3.25	: 3.50	Phenylacetic Acid, 1 lb bot.....lb	3.00	: 3.25	Tonquin, tins.....oz	35.00	: 38.00
Formic Ether. See Ethyl Formate			Phenyl Diacetate, 1 oz bot.....oz	3.25	: 3.50	Synthetic. See Aromatic Chemicals		
Geranyl Acetate, 1 lb bot.....lb	6.50	: 7.00	PHENYLETHYLALCOHOL dom.,			Orris Rt. Flor., powd. bbls.....lb	.09	: .11
Geranyl Butyrate, 1 lb bot.....lb	13.00	: 13.50	1 lb bot.....lb	8.00	: 10.00	Verona, bbls.....lb	.08	: .09
Geranyl Formate, 1 lb bot.....lb	12.00	: 12.50	Imported.....lb	8.00	: 9.00	Petrolatum, snow white, 350 lb bbls..lb	12 1/2	: .13
Hydroxycitronellal, 1 lb bot.....lb	15.00	: 18.00	Phenyl Ethyl Butyrate, 1 lb bot...lb	26.00	: 28.00	Light Amber, 250 lb bbls.....lb	.04 1/2	: .05
Heliotropin, dom., 10 lb bot....lb	1.85	: 2.00	Phenyl ethyl Formate, 1 lb bot...lb	19.00	: 21.00	Rice Starch, 140 lb bgs.....lb	.09	: .10
Imported.....lb	2.50	: 2.75	Phenyl ethyl Propionate, 1 lb bot..lb	20.00	: 24.00	Rose Water, 6 2-3 gal clys.....gal	1.00	: 1.25
Indol, CP, 1 oz. bot.....oz	6.00	: 6.50	Phenyl ethyl Valerate, 1 lb bot...lb	25.00	: 29.00	Sandalwood chips, powd., bags....lb	.30	: .35
Ionone, 1 lb bot.....lb	5.00	: 9.00	Phenylpropylalcohol, 1 lb bot....lb	15.00	: 16.00	Saponin, 5 lb tins.....lb	1.25	: 1.50
Alpha.....lb	10.00	: 12.00				Talc Italian, 220 lb bgs.....ton	42.00	: 55.00
Beta.....lb	9.00	: 11.00				Talc French, 220 lb bgs.....ton	32.00	: 45.00
Methyl.....lb	12.50	: 15.00				Talc, domestic ref., 100 lb bags...ton	20.00	: 30.00

ANTIPYRINE  
(Phenazone U. S. P.)

AMIDOPYRINE  
(Pyramidon)

DIMETHYL SULPHATE  
RESORCINOL TECHNICAL  
RESORCINOL U. S. P.

Crystal or Powdered

ETHYL CHLORIDE  
in cylinders

For refrigeration and technical purposes.

HYDROQUINONE  
Technical and photographic

RHODOL  
(Metol)

RHODIA CHEMICAL CO.

89 Fulton Street  
New York

Works: New Brunswick, N. J.

Essential Oils  
and  
Aromatic Chemicals  
for  
PERFUMES, SOAPS,  
FLAVORING  
EXTRACTS

Morana Incorporated

Importers and Manufacturers

GENERAL OFFICES:

118 East 27th St., New York City

CHICAGO:  
19 S. LaSalle St.

WORKS:  
ELIZABETH, N. J.



# Imports of Chemicals, Dyestuffs, Drugs, etc.

Imports at New York Feb. 2 to Feb. 9

**ACIDS**—4 cks., Order, Hamburg; **Acetic**, 1 cse., E. Fougere & Co., London; **Citric**, 300 cks., L'Appula Soc. An., Genoa; 50 cks., Order, Palermo; **Cresylic**, 23 drs., E. H. Watson, Rotterdam; 44 drs., W. E. Jordan & Bros., Liverpool; 10 drs., Order, Liverpool; 60 drs., Order, Glasgow; **Oxalic**, 50 bbls., Philipp Bauer & Co., Rotterdam; 12 bbls., Order, Hamburg; 25 bbls., Innis Speiden & Co., Hamburg; **Tartaric**, 120 cks., Canadian Natl. Railways, Palermo; 525 cks., Order, Palermo  
**ALBUMEN**—30 cks., Intern. Acceptance Bk., Hamburg; 35 cks., Balfour Williamson & Co., Shanghai  
**ALCOHOL**—Butyl, 179 cks., Comm. Solvents Corp., Bordeaux; 13 drs., Order, London; 11 drs., Order, London  
**ALOES**—130 cks., Suzarte & Whitney, Curacao; 43 cks., R. Desvernine, Curacao; 800 cks., Selma Merc. Co., Curacao  
**AMMONIUM**—Chloride, 5 cks., Wing & Evans, Liverpool; Nitrate, 1 cse., Order, London; Muriate, 150 cks., C. De P. Field Co., Bristol  
**AMYL ACETATE**—3 bbls., M. De Mattia Chem. Co., Havre  
**ANTIMONY**—Oxide, 50 bbls., Philipp Bros., Antwerp; Regulus, 31 cks., Order, Genoa; 500 cks., Columbia Salvage Corp., Hankow; 250 cks., Nat. Lead Co., Hankow; 750 cks., F. Cundill Co., Hankow; 650 cks., Charles Albert Co., Hankow; Sulfide, 7 cks., L. H. Butcher & Co., Antwerp; Sulfuret, 1 bbl., Amer. Exp. Co., Havre  
**ARGOLS**—27 cks., Order, Naples; 108 cks., Tartar Chem. Wks., Naples; 15 bgs., Chamber of Commerce, Piraeus  
**ARSENIC**—196 cks., Order, Rotterdam; 400 cks., S. W. Bridges & Co., Kobe; 200 cks., Suzuki & Co., Kobe; 100 cks., J. D. Lewis, Kobe; 87 cks., Frazar & Co., Kobe; 350 cks.,

A. C. Wirtz, Kobe; 500 cks., Takata & Co., Kobe; 185 cks., Clevely & Co., Kobe; 122 cks., Nat. City Bk., Kobe; 200 cks., Falkingham Co., Osaka; 184 cks., Order, Brisbane; 250 cks., C. Gitlan, Shanghai  
**BLANC FIXE**—200 bgs., Order, London  
**CAMPHOR**—50 cks., Mech. & Metals Nat. Bk., Hongkong; 200 cks., Suzuki & Co., Shanghai; 200 cks., H. J. Baker & Bro., Kobe; 100 cks., Hetherman & Co., Kobe  
**CASEIN**—417 bgs., Brown Bros. & Co., Buenos Aires  
**CINCHONIDINE**—40 cks., R. W. Greeff & Co., Rotterdam  
**CINCHONINE**—2 cks., R. W. Greeff & Co., Rotterdam  
**CLAY**—505 tons, Moore & Munger, Bristol; 10 bgs., Railway Contracting Corp., Piraeus; 165 cks., E. Thiele, Rotterdam; China, 4 cks., Kalamazoo Paper Co., Bristol  
**COAL TAR**—Distillate, 13 drs., Monsanto Chem. Wks., Liverpool; 171 drs., Order, Liverpool  
**COLORS**—5 cks., Kuttroff Pickhardt & Co., Hamburg; 1 cse., Order, Hamburg; 61 cks., Ciba Co., Havre; 5 cks., C. W. Sellers, Havre; 34 cks., Ciba Co., Havre; 3 cks., 11 pkgs., Sandoz Chem. Wks., Havre; 9 bbls., Ackerman Color Co., Havre; 10 cks., Brown Bros. & Co., London; 5 cks., Amer. Exch. Nat. Bk., Liverpool; 5 cks., Order, London; 4 cks., J. C. Robold & Co., London; 5 cks., Order, Liverpool; 2 bbls., Bachmeier & Co., Genoa; 4 cks., Color Service Corp., Rotterdam; 3 bbls., Amer. Exch. Nat. Bk., Rotterdam; 105 cks., Kuttroff Pickhardt & Co., Rotterdam; 5 cks., H. A. Metz & Co., Rotterdam; 2 cks., Carbic Color & Chem. Co., Rotterdam; 30 cks., Geigy Co., Antwerp; Earth, 2 cks., L. Scott Libby Co., Rotterdam; 12 cks., 2 cks., A. Hurst & Co., Ham-

burg; 2 cks., F. C. Gerlach, Hamburg; 14 cks., A. Hurst & Co., Rotterdam  
**CREOSOTE**—75 drs., Merck & Co., Hamburg  
**DIVI DIVI**—267 bgs., Cordillera Comm. Co., Puerto Plata  
**ERGOT**—Rye, 9 cks., C. L. Huisking, Inc., Lisbon  
**EUPHORBIA PILULIFERA**—39 bbls., Order, Tuticrin; 14 bbls., Order, Coconada  
**FLOWERS**—Jasmin, 50 cks., J. Sanchez, Buenos Aires; Lavender, 9 bbls., Parke Davis & Co., Marseilles; 20 bbls., Order, Marseilles; Pyrethrum, 75 bbls., Shima Trdg. Co., Osaka; Rose, 5 cks., Order, Marseilles  
**FULLER'S EARTH**—500 bgs., L. A. Salomon & Bros., Bristol; 220 bgs., L. A. Salomon & Bros., London; 250 bgs., L. A. Salomon & Bros., London  
**GLAUBER SALT**—150 cks., Bengol Trdg. Co., Hamburg  
**GLYCERIN**—140 drs., Marx & Rawolle, London; Saponification, 62 drs., Order, Rotterdam; Soap Lye, 40 drs., Lunham & Reeve, Rotterdam  
**GUMS**—53 bgs., Brown Bros. & Co., Port Sudan; 10 bgs., Order, Marseilles; 100 cks., Kidder Pealody & Co., Singapore; Benzoin, 57 cks., Order, Rotterdam; Copal, 1,321 bgs., L. C. Gillespie & Sons, Matadi; 42 bgs., Chem. Nat. Bk., London; 59 bgs., S. Winterbourne & Co., London; 170 bgs., Order, Singapore; 19 cks., Carcason Trdg. Co., Lisbon; 200 bgs., Brown Bros. & Co., Antwerp; 50 cks., Baring Bros. & Co., Singapore; 50 cks., Brown Bros. & Co., Singapore; Damar, 150 cks., 192 bgs., Brown Bros. & Co., Singapore; Kauri, 333 cks., Guaranty Trust Co., Auckland; 215 cks., J. D. Lewis & Co., Auckland; 155 cks., 499 cks., Chem. Nat. Bk., Auckland; 330 cks., 611 cks., Brown Bros. & Co., Auckland; 53 cks., 105 cks.,

## GERANIOL

Di Ethyl Phthalate  
Phenyl Acetic Acid  
Cinnamic Acid  
Neroline—Yara Yara  
Caramel—Sugar Color  
Terpeneless Essential  
Oils

**THE FRIES & FRIES Co.**

1501-13 W. 6th St.  
Cincinnati, O.

242 Pearl St.  
New York

## Cresylic Acids

ALL GRADES

CRESOL U. S. P.  
META CRESOL PURE  
PARA CRESOL PURE  
ORTHO CRESOL PURE  
ACROSYL  
(SAPONIFIED CRESOL)

SPOT AND FOR IMPORT

Manufactured at our Ruabon, N. Wales Works

**Monsanto Chemical Works**  
St. Louis, U.S.A.

NEW YORK

CHICAGO

L. C. Gillespie & Sons, Auckland; 682 sks., Chase Nat. Bk., Auckland; 643 bgs., 446 cs., Order, Auckland; **Mastic**, 10 cs., Order, Marseilles; 26 cs., Stamaulis Bros., Piraeus; 24 cs., 6 bbs., G. Hauimanolis & Co., Piraeus; 15 cs., Order, Piraeus; **Myrrh**, 10 bgs., Order, London; **Perille**, 9 bbs., Order, Cartagena; **Oilbanum**, 25 cs., Seabury & Johnson, London; **Sandarac**, 32 bgs., G. H. Lincks, London; 14 cks., S. Winterbourne & Co., London; 5 bgs., Order, London; 21 bgs., Order, London; **Tragacanth**, 31 cs., Bk. of Montreal, London; 30 cs., Thurston & Braidich, London; 95 bgs., Order, London; 9 cs., Order, Constantinople

**IRON OXIDE**—34 bbls., Reichard Coulston, Inc., Malaga; 228 bbls., C. J. Osborn & Co., Malaga; 170 bbls., C. K. Williams & Co., Malaga; 72 bbls., Smith Chem. & Color Co., Malaga; 474 bbls., Order, Malaga; 20 cks., Order, Leith; 34 cks., L. H. Butcher Co., Liverpool; 10 cks., J. A. McNulty, Liverpool

**KAMALA**—1 cse., S. B. Penick & Co., Hamburg

**LEAVES**—12 bbs., Order, Marseilles; 13 bgs., Order, Marseilles; 27 bbs., McLaughlin Gormley & King, Hamburg; **Belladonna**, 3 bgs., Eli Lilly & Co., Hamburg; **Euchu**, 8 bbs., Order, London; 9 bbs., Brown Bros. & Co., Capetown; 5 bbs., Chase Nat. Bk., Capetown; 109 bbs., Order, Capetown; **Coca**, 66 bbs., Maywood Chem. Works, South Pac. Ports; **Laurel**, 80 bbs., Order, Leghorn; 32 bbs., N. Apostol Davis, Piraeus; **Marjoram**, 100 bbs., A. Joenson & Co., Marseilles; **Sage**, 17 bbs., N. Apostol Davis, Piraeus; 4 bbs., Nassiakos Imp. Co., Piraeus; **Senna**, 13 bbs., Order, Colombo; 1,053 bbs., Order, Tuticorin; 273 bbs., Brown Bros. & Co., Port Sudan; 24 bbs., Chase Nat. Bk., Port Sudan; 345 bbs., Nat. Bk. of Egypt, Port Sudan; 132 bbs., Order, Port Sudan; 89 bbs., Brown Bros. & Co., Port Sudan; 62 bbs., Anglo Egyptian Bk., Port Sudan; 30 bbs., Order, Port Sudan

**LIME**—Citrate, 162 cks., C. Pfizer & Co., Messina

**MAGNESITE**—313 bgs., 100 bbls., Speiden Whitfield Co., Rotterdam; 2,400 bgs., Order,

Madras; 107 bbls., Speiden Whitfield Co., Rotterdam; Calcined, 220 bbls., Innis Speiden & Co., Rotterdam

**MAGNESIUM**—Calcined, 1 cse., Order, London; Carbonate, 2 cs., Order, London

**MENTHOL**—Crystals, 10 cs., Dodwell & Co., Kobe

**MYROBALANS**—7,010 pkts., Nat. City Bank, Calcutta; 2,153 pkts., Asia Bkg. Corp., Calcutta; 3,230 pkts., Mech. & Metals Nat. Bk., Calcutta

**NUX VOMICA**—160 bgs., Order, Cochin

**OILS**—Coconut, 693 tons, Spencer Kellogg & Sons, Manila; 750 tons, Spencer Kellogg & Sons, Manila; **Cod**, 25 cks., R. Badcock & Co., St. Johns, N. F.; 150 cks., Nat. Oil Products Co., St. Johns, N. F.; **Codliver**, 50 bbls., Mead Johnson & Co., St. Johns, N. F.; 10 cs., E. Fougere & Co., London; 125 bbls., Order, Rotterdam; **Ground Nut Acid**, 55 bbls., H. P. Grant, Rotterdam; **Haarlem**, 5 cs., Lehn & Fink, Rotterdam; 10 cs., H. Hamstra & Co., Rotterdam; **Linseed**, 2 drs., Fuchs & Lang, Buenos Aires; **Olive**, 100 cs., Adler & Balamut, Genoa; 250 cs., J. J. Morton, Genoa; 1,300 cs., Order, Genoa

135 cs., B. B. Dorf & Co., Nice; 100 cs., W. T. Reynolds & Co., Nice; 250 cks., 70 cs., Order, Nice; 891 cs., W. A. Taylor & Co., Barcelona; 150 cs., East River Nat. Bk., Malaga; 150 cs., Chase Nat. Bk., Malaga; 100 cs., J. Mendoza, Malaga; 100 cs., M. P. Tribuno, Malaga; 100 bbls., Lazard Freres, Malaga; 75 cs., Irving Bk., Columbia Trust Co., Malaga; 300 cs., First Nat. Bk. Boston, Malaga; 389 cs., Order, Malaga; 250 cs., Amer. Exp. Co., Genoa; 1,300 cs., Order, Leghorn; 200 bbls., 468 cs., A. E. Rittwagen, Malaga; 550 cs., Order, Genoa; 100 cs., Latorraca Bros., Genoa; 125 cs., D. A. Sclafani, Genoa; 4,668 pgs., Niger Co., Matadi; 1,008 pgs., Irving Bk., Burutu; 1,538 pgs., Irving Bk., Columbia Trust Co., Burutu; 70 cks., Standard Bk. of So. Africa, Liverpool; 100 bbls., Order, Liverpool; 34 cks., Order, Antwerp; **Kernel**, 51 cks., Order, Liverpool; **Rapeseed**, 4 bbls., Shima Trdg. Co., Kobe; **Wood**, 120 bbls., Order, London; 150 cks., Brown Bros. & Co., Hankow; 278 cks., Amer. Linseed Co., Han-

kow; 200 bbls., Mitsui Co., Hankow; 150 cks., Balfour Williamson & Co., Hankow; 480 bbls., Mitsubishi Shoji & Kaisha, Hankow; 300 cks., G. W. S. Paterson & Co., Hankow; 108 cks., Jardine Matheson Co., Hankow; 72 bbls., Order, Hamburg

**OILS, ESSENTIAL**—20 cs., Brown Bros. & Co., London; 12 cs., Ungerer & Co., London; 5 cs., Dodge & Olcott Co., Grasse; 5 cks., L. R. Dreyer, Grasse; 3 cs., Rouse Bertrand Fils, Grasse; 9 drs., G. Lueders & Co., Malaga; 2 drs., Lautier Fils, Malaga; 2 cs., Orbis Products Trdg. Co., Havre; 1 cse., E. M. Laning & Co., Havre; 1 ck., Order, Havre; 390 cs., Order, Messina; 5 cs., Order, London; 19 cs., Polak Frutal Wks., Rotterdam; 1 cse., Lehn & Fink, Hamburg; **Almond**, 6 cs., Order, Marseilles; 40 cs., Dodge & Olcott Co., Grasse; 20 cs., Order, Grasse; **Anise**, Star, 6 drs., G. Lueders & Co., Hongkong; **Bergamot**, 25 cs., Order, Palermo; **Camphor**, 95 drs., D. L. Moss & Co., Shanghai; 200 drs., Dodge & Olcott Co., Kobe; **Caraway**, 1 cse., Magnus Mabree & Reynard, Rotterdam; 3 cs., Fritzsche Bros., Rotterdam; **Coriander**, 1 cse., P. R. Dreyer, Rotterdam; **Cassia**, 5 drs., Magnus Mabree & Reynard, Hongkong; 5 drs., Order, Hongkong; **Cinnamon**, Leaf, 2 drs., Amer. Exp. Co., Colombo; **Citronella**, 3 drs., Order, London; 8 drs., Amer. Exch. Nat. Bk., Colombo; **Celza**, 15 cks., Amer. Exp. Co., Havre; **Eucalyptus**, 6 drs., Dodge & Olcott, Sydney; **Fusel**, 13 bbls., A. Klipstein & Co., Rotterdam; 6 drs., Banque Belge Pour l'Etranger, Sourabaya; 8 drs., Order, Dunkirk; 2 drs., Order, Barcelona; **Geranium**, 1 ck., A. Chiris & Co., Marseilles; 1 drum, G. Lueders & Co., Algiers; **Lavender**, 30 cs., P. R. Dreyer, Grasse; 18 cs., Goldmann Sachs & Co., Grasse; **Lemongrass**, 10 drs., Order, London; **Orange**, 3 cs., Fritzsche Bros., Messina; **Sweet**, 75 cs., Order, Palermo; **Rosewood**, 5 bbls., Guaranty Trust Co., St. Nazaire; **Thyme**, 1 ck., L. R. Dreyer, Grasse

**PHENYL ACETIC**—Aldehyde, 1 cse., P. R. Dreyer, Rotterdam

**PIASSAVA**—300 bbls., Order, Bahia

**POTASSIUM SALTS**—Alum, 50 bbls., Superfos

## YELLOW PRUSSATE OF SODA

PRIME CRYSTALS—HIGH YIELD

Minimum 99% Sodium Ferrocyanide

## YELLOW PRUSSATE OF POTASH

PRIME CRYSTALS

Minimum 99% Potassium Ferrocyanide

Manufactured by  
THE AMERICAN CYANAMID COMPANY  
Warners, N. J.



**HENRY W. PEABODY & CO.**  
17 State St. New York City

SELLING AGENTS FOR  
VICTOR BLAGDEN & CO., LTD., LONDON



**VICTOR CHEMICAL WORKS**  
CHICAGO, ILL.

## OXALIC ACID

Phosphate of Soda  
Epsom Salts  
Ammonium Phosphate  
Tri-Sodium Phosphate  
Phosphoric and Formic Acids

BRANCHES:  
New York  
Nashville  
St. Louis

Co., Hamburg; Caustic, 76 drs., Norvell Chem. Corp., Hamburg; 257 bbls., Roessler & Hasslacher Chem. Co., Hamburg; 1 drum, Order, Hamburg; Chlorate, 250 bbls., Order, Havre; Nitrate, 103 bbls., Superfos Co., Rotterdam; Prussiate, 21 cks., Superfos Co., Copenhagen; Sulfate, 650 bgs., Potash Impmt. Corp., Hamburg

**QUICKSILVER**—300 bottles, Order, Genoa

**ROOTS**—41 bgs., Peek & Velsor, Hamburg; 22 bls., Order, Marseilles; 9 bls., S. B. Penick & Co., Hamburg; Aconite, 13 bgs., Order, Leghorn; Arrow, 20 cs., J. P. Smith & Co., London; 10 bbls., Ortelero Co., St. Vincent; Dandelion, 73 bgs., C. B. Richard & Co., London; Ipecac, 12 bls., Ultramares Corp., Bahia; 10 bls., Huth & Co., Bahia; 5 bls., Order, London; 21 bls., R. Dei Castillo, Montevideo; 10 bls., Nat. City Bk., Rio de Janeiro; 2 bgs., Fidanque Bros. & Sons, South Pac. Ports; Orris, 77 bgs., Brown Bros. & Co., Leghorn

**SAL AMMONIAC**—110 bbls., E. Suter & Co., Hamburg; 35 bbls., Innis Speiden & Co., Rotterdam

**SEEDS**—60 bgs., Peek & Velsor, Hamburg; Anise, 100 bgs., Anderson Hillier & Co., Malaga; 100 bgs., Archibald & Lewis, Malaga; 100 bgs., Feld & Feld, Malaga; 100 bgs., Austin Nichols & Co., Malaga; 50 bgs., Doptoglou Bros., Malaga; 100 bgs., Order, Malaga; Caraway, 300 bgs., Products Agencies, Inc., Rotterdam; 100 bgs., Vulcan Foreign Commerce Corp., Rotterdam; 100 bls., Wood & Selick, Rotterdam; 200 bls., Archibald & Lewis Co., Rotterdam; Cardamom, 21 cs., Order, London; Castor, 21,816 bgs., Order, Coconada; 11,356 bgs., Order, Coconada; Colocynth, 53 bls., Order, Port Sudan; Fennel, 50 sks., Order, Marseilles; 1 pel., J. Bacchi, Palermo; 20 bgs., First Nat. Bk., Marseilles; Fescue, 86 sks., Irving Bk., Dunedin; 138 bgs., Kellogg Seed Co., Dunedin; Flax, 16,488 bgs., Order, Buenos Aires; Mustard, 200 bgs., Mech. & Metals Nat. Bk., Catania; 500 bgs., Order, Catania; 250 cks., Order, London; 400 bgs., Order, London; 270 sks., R. F. Downing & Co., London; 100 bgs., Materno & Hess, Rotterdam; 150 bgs., C. Gulden, Rotterdam; 250

bgs., Archibald & Lewis Co., Rotterdam; 100 bgs., Catz Amer. Co., Rotterdam; 95 sks., Materno & Hess, London; 158 bgs., Order, Copenhagen

**SENNA—Mixed**, 43 bls., Nat. Bk. of Egypt, Port Sudan; Siftings, 25 bls., Brown Bros. & Co., Port Sudan; 43 bls., Order, Port Sudan; 35 bls., Order, Alexandria

**SODIUM SALTS—Chlorate**, 203 bbls., Irving Bk.-Columbia Trust Co., Barcelona; Cyanide, 448 cs., 20 drs., Asia Bkg. Corp., Marseilles; 76 cs., Order, Liverpool; 124 cs., H. W. Peabody & Co., Liverpool; Fluoride, 754 bgs., 74 bbls., Order, Hamburg; Hyposulfite, 120 cks., Order, Hamburg; Nitrate, 5,130 bgs., Wessel Duval & Co., Iquique; Prussiate, 25 cks., C. Tennant Sons, Liverpool; 52 cks., Meteor Products Co., Rotterdam; Silicate, 1 bbl., Markt Hammacher & Co., London; Sulfite, 78 drs., C. S. Grant & Co., Hamburg

**SUMAC**—350 bgs., Order, Messina

**TALC**—200 sks., L. A. Salomon & Bro., Genoa; 10 sks., Order, Genoa; 200 bgs., C. Mathieu, Genoa; 200 bgs., J. H. Furman & Co., Genoa

**TARTAR**—573 sks., C. Pfizer & Co., Marseilles; 730 sks., Tartar Chem. Co., Marseilles; 5 cks., A. J. Marcus, Hamburg

**VANILLA BEANS**—47 cs., P. H. Petry & Co., Marseilles; 19 cs., G. Lueders & Co., Marseilles; 37 cs., Thurston Braidich & Co., Marseilles; 113 cs., Dodge & Olcott Co., Marseilles; 10 cs., French Amer. Bkg. Corp., Marseilles; 40 cs., Order, Samarang; 6 cs., J. Manheimer, Havre; 76 cs., G. Lueders & Co., Havre; 8 cs., R. F. Downing & Co., Havre

**VERMILION**—12 cks., Pomeroy & Fischer, London

**WAX**—40 cs., Order, Havre; 3 sks., Mecke & Co., Azua; 82 pgs., Carcoson Trdg. Co., Lisbon; Bees, 5 bgs., Schutte & Focke, Puerto Plata; 10 seroons, J. J. Julia & Co., Monte Christy; 110 bgs., Nat. Bk., Hamburg; 15 bls., Order, Liverpool; Montan, 14 sks., Nat. City Bk., Hamburg

**WOODFLOUR**—1,695 bls., Order, Gothenburg; 1,000 bgs., B. L. Soberski, Rotterdam; 2,504 bgs., Irving Bk., Helsingfors

**ZINC**—2 cks., Order, London; Blanc, 100 bbls., Reichard Conlston, Inc., Marseilles; 100 cks., F. B. Vancegriff & Co., Marseilles; 50 bbls., Order, Marseilles; Oxide, 10 cs., Order, London; Resinate, 10 cks., Order, London

# IMPORTS AT BALTIMORE

**BARYTES**—300 double bags, Schall Color and Chemical Co., Turpin, Hamburg

**CHALK**—500 bags, Continental Whiting Co., West Cherow, Antwerp

**CHEMICALS**—500 double bags, 103,000 lbs., Roessler & Hasslacher Chemical Co., New York, West Cherow, Antwerp

**CHROME ORE**—3,000 tons, E. J. Lavino & Co., Clan MacBride, Beira

**CLAY**—204 casks, F. H. Shallus Co., Turpin, Hamburg

**FLUORSPAR**—329 tons, F. H. Shallus Co., Manchester Mariner, Manchester

**LICORICE ROOT**—10,311 bales, J. S. Young Co., Nigaristen, Busrah

**MANGANESE ORE**—6,311 tons, Wilbur F. Spice & Co., Rosalia, Poti; 5,468 tons, Bethlehem Steel Co., Breaksea Light, Poti

**MOLASSES**—1,200,000 gals., United States Industrial Alcohol Co., Nelson, Matanzas

**NITROGENOUS MATERIAL**—568 bags, 25 tons, J. H. Cottman Co., Hoxie, Glasgow

**SEEDS**—Clover, 75 bags, W. H. Masson, Turpin, Hamburg; Garden, 22 bags, D. W. Warren Company, Burgerdijk, Rotterdam

# IMPORTS AT PHILADELPHIA

**ACID, FORMIC**—146 demijohns, Brown Bros. & Co., Hamburg

**AMMONIUM CHLORIDE**—22 bbls., Koons Wilson & Co., Hamburg

**ARSENIC**—116 casks, Order, Antwerp

**CHINA CLAY**—4,040 tins, Order, Fowey; 388 tons, Order, Fowey

**CHROME ORE**—1,200 tons, Order, Volo

**CYANIDE**—Sodium, 100 drums, Pack Chem. Co., Liverpool

**FLUORSPAR**—1,010,725 lbs., Order, Cape Town; 89 tons, 11 cwt., Shimer & Co., Manchester

**LICORICE ROOT**—4,625 bales, MacAndrews & Forbes, Smyrna; 3,840 bales, MacAndrews & Forbes, Alexandretta

CHEMICAL  
**SEABOARD**  
COMPANY

**Methanol**

(Wood Alcohol)

**Acetic Acid**

(All Grades)

**Osage Orange**

(Dyewood Extract)

**Seaboard Chemical Co.**

30 CHURCH STREET

NEW YORK

Telephone Cortland 1027-5519

Cables Seaboard, New York





## DYES IMPORTED IN 1923

(Continued from Page 494)

stituted to a considerable extent for the GCD brand in the cotton-dyeing industry. In 1923 the imports of BCS fell to 12,240 pounds. The BCS brand was produced in quantity in the United States in 1922. It is further probable that the large import of BCS in 1922 was partly carried over to 1923 and that the combined production and importation of the BCS brand directly influenced the imports as well as the production of GCD in 1922. The imports of the GCD receded from 201,835 pounds in 1921 to 16,802 pounds in 1922. In 1923, however, imports of the GCD increased to 68,537 pounds. Of the total imports of Indanthrene blue GCD through the Port of New York during 1923, 16 per cent came from Italy and 10 per cent of all dyes imported were shipped from that country. The significance of this can be more readily appreciated by a brief review of the Reparation dye deliveries.

During the period of the United States' participation, the option for the delivery of 25 per cent of the German daily production accorded no GCD blue to Italy and only 9 per cent of the other vat dyes, while the United States received 60 per cent of GCD blue and 42 per cent of other vats.

According to the report of the Reparation Commission, Italy received up to December 1922, 4,241,832 kilos of all dyes out of a total delivery by Germany of 22,689,775 kilos. Italy ranked second to Great Britain, the latter receiving 6,159,583 kilos of all dyes. These Reparation figures are of interest in a consideration of the possible imports of Reparation dyes from Italy and France during 1924, in view of the renewed deliveries of the I. G. to the different allied countries.

Dyes of each class according to method of application, imported in largest quantity during the calendar year 1923, compared with imports in 1922, 1921 and the fiscal year 1914.

Acid dyes					
Schultz No.	Class and Name of Dye	1923 Pounds	1922 Pounds	1921 Pounds	1914 Pounds
543	Patent blue	62,674	49,136	42,708	196,228
22	Xylene light yellow	46,388	12,937	60,423	23,074
220	Patent blue	33,500	11,436	14,850	290,274
566	Erioglaucine	31,913	25,852	16,004	66,526
265	Sulphon cyanine black	19,511	14,859	615	69,590
531	Eriocyanine	19,202	14,808	16,808	25,091
523	Fast green	18,020	52,498	22,619	14,347
348	Polar Red	15,081	14,926	2,379	2,821
526	Cyanol	13,323	20,658	14,271	40,015
564	Naphthalene green	11,081	19,298	23,926	22,144
545	Patent blue A	10,997	3,436	16,170	63,744
	Polar Yellow	9,264	2,998		782
	Brilliant milling blue	8,430	872	2,175	9,966
	Guinea fast red	8,325	200		5,619

**Vat Dyes.** The figures for the years 1923, 1922 and 1921 are on a single strength basis. The totals for 1914 are not reduced to a uniform basis, but represent the numerical total of paste and powder forms.

Vat dyes					
Schultz No.	Class and Name of Dye	1923 Pounds	1922 Pounds	1921 Pounds	1914 Pounds
849	Indanthrene yellow	83,208	15,507	49,609	12,683
842	Indanthrene blue G C D	68,537	16,802	201,835	478,980
761	Indanthrene golden orange R	67,571	78,145	66,890	80,496
760	Indanthrene golden orange G	35,569	73,305	33,423	20,082
	Hydron pink	48,078	20,230		
869	Algol brown B	47,348	16,778	6,640	1,596
901	Ciba violet B	46,210	131,661	21,987	19,830
	Helindone pink B R	42,989	40,668		
838	Indanthrene blue R S	40,105	39,999	28,908	187,379
907	Ciba scarlet	37,097	33,246	10,695	22,265
919	Ciba bordeaux B	36,996	33,621	4,625	899
765	Indanthrene green B	35,012	57,444	6,932	122,285
840	Indanthrene blue 3 G	24,533	24,992	19,715	6,120
918	Helindone red 3 B	16,403	32,819	17,566	27,874
	Indanthrene blue B C S	12,240	239,085		

## Mordant and chrome dyes

Schultz No.	Class and Name of Dye	1923 Pounds	1922 Pounds	1921 Pounds	1914 Pounds
862	Alizarin blue black	56,332	22,277	43,277	54,706
778	Alizarin, synthetic	35,168	27,086	136,283	202,392
637	Gallamine blue	26,852	29,337	15,179	2,756
858	Alizarin saphirol B	25,540	46,896	28,606	14,306
854	Alizarin viridine F F	15,996	25,910	9,499	
865	Alizarin direct green G	14,885	11,669	36,534	2,000
	Acid alizarin grey	12,865	7,555	2,818	
	Omega chrome brown	11,502	8,570	5,486	
	Erio chrome flavine A	11,485	12,203	110	

## Direct dyes

Schultz No.	Class and Name of Dye	1923 Pounds	1922 Pounds	1921 Pounds	1914 Pounds
273	Diaminogene blue	64,139	33,798	19,182	8,308
449	Trisulphon brown	26,484	45,697	38,558	16,781
358	Diphenyl red	17,405	33,945	4,036	14,305
457	Trisulphon brown G G	15,268	37,648	22,872	7,562
	Chlorantine fast brown	13,513	7,715	4,589	
456	Benzo fast blue	13,048	6,997	3,768	100,496
392	Toluylene orange	10,928	36,920	823	67,032
319	Diamine scarlet	9,619	14,137	12,999	41,175
	Diamine fast orange	9,457	8,719	6,261	17,387
	Diazo sky blue	8,859	14,067	6,892	6,153
	Chlorantine fast orange	8,703		2,348	
	Zambesi black	8,000	3,000	1,752	623,359

## Sulphur dyes

Schultz No.	Class and Name of Dye	1923 Pounds	1922 Pounds	1921 Pounds	1914 Pounds
	Eclipse brown	10,000	35,991	21,248	4,393
747	Thional brown G	9,228			110
726	Pyrogene blue	8,929	24,251	11,718	10,924
	Thional yellow	7,306	26,682	17,704	
746	Katigene green	4,234	11,397	6,543	63,926

## Basic dyes

Schultz No.	Class and Name of Dye	1923 Pounds	1922 Pounds	1921 Pounds	1914 Pounds
606	Phosphine	36,150	51,711	21,325	163,225
571	Rhodamine 6 G	30,252	13,545	10,069	37,515
573	Rhodamine B	28,464	5,077	10,890	59,354
618	Thioflavine T	15,400	6,765	7,297	35,224
603	Acridine orange	8,454	711	1,613	2,336
608	Euchrysine	7,198	3,476	872	15,403
663	New methylene blue	6,343	2,060	4,329	30,392
661	Thionine blue	5,840	2,746	421	18,618
500	Setopaline	5,635	2,824		923
681	New fast gray	5,315	3,628	2,296	29,507

## Imports of Organic Chemicals of Non Coal-Tar Origin

The following table contains the imports of a selected list of organic chemicals for 1922 and 1923 reported in "Foreign Commerce and Navigation in the United States." It is expected that monthly figures for these products will be reported during 1924 in the monthly bulletins:

	1922 Pounds	1923 (11 months)
Acetaldehyde	82,390	13,192
Acetic anhydride	1,302	244
Carbon tetrachloride	44,092	1,251
	22,039	603
Chloroform	15	3
Ethyl acetate	300	276
Ethyl ether	906	158
Formaldehyde	407	67
Gallie acid	4,490	2,387
Glycerophosphoric acid	5,460	4,789
& salts of	7,021	3,870
Hexamethylenetetramine	16,010	7,765
Para formaldehyde	200	104
Pyrogallie acid	1	3
Trichloroethylene	110,230	5,863
	182,257	43,891
Urea	78,370	17,670

## PRICES OF REPARATION DYES IN ITALY

(Special Correspondence to DRUG &amp; CHEMICAL MARKETS)

Milan, Feb. 2.—Prices per 100 kilos for the war reparations dyes distributed by the special commission authorized by the Italian Government are as follows: Naphthol Yellow, lire 4,000 to 6,500; Auramin, lire 6,000 to 7,000; Orange II, lire 2,000 to 2,200; Nigrosine, water soluble, lire 2,800 to 3,500; Sulfur Black lire 700 to 1,100; Acid Black, lire 2,200 to 2,600; Direct Black, lire 2,200 to 2,600.

# CAUSTIC ACID BILLS IN TWO STATES UPSET INSECTICIDE MANUFACTURERS

All Preparations Containing Cresols or Cresylic Acid May Be Affected—Sulfuric, Nitric, Carbolic, Hypochlorous and Sodium Hydroxide Above a Certain Per Cent Concentration Come Under the Ban in New Jersey and Virginia Measures

Bills to regulate the sale of caustic acids have been introduced in the legislatures of New Jersey (House Bill No. 169) and Virginia (House Bill No. 40). The bills will seriously interfere with the sale of disinfectants, household insecticides and pipe cleaners. Judge Thompson of the Proprietary Association says these bills may affect all preparations containing cresols or cresylic acid and suggests that perhaps they are being brought forward at the instance of some interested party.

The words "caustic or caustic substances" are defined as follows in the bills:

Sulfuric acid and any preparation containing free or chemically unneutralized sulfuric acid ( $H_2SO_4$ ) in a concentration of ten per centum or more;

"Nitric acid or any preparation containing free or

chemically unneutralized nitric acid ( $HNO_3$ ) in a concentration of five per centum or more;

"Carbolic acid, otherwise known as phenol, and any preparation containing carbolic acid or phenol in a concentration of five per centum or more;

"Hypochlorous acid, either free or combined, including calx chlorinata, bleaching powder, chloride of lime, chlorinated soda, and chlorinated potash, and any preparation containing any of the aforesaid substances so as to yield a concentration of ten per centum or more of available chlorine;

"Sodium hydroxide and any preparation containing free or chemically unneutralized sodium hydroxide ( $NaOH$ ), including caustic soda and lye, in a concentration of ten per centum or more."

Products intended for household use must be accompanied by a statement containing the name of the article, the name and place of business of the manufacturer, seller or distributor, a poison label and directions for treatment in case of accidental poisoning, with the names of two readily obtainable antidotes. The Insecticide and Disinfectant Manufacturers Association will oppose the bills.

## GERMAN PRODUCTION OF DYES, 1923 (Pounds)

Factory	January	February	March	April	May	June	Total Jan.-June
Wulfsing, Dahl & Co., Barmen.....	52,254	73,243	59,873	52,536	55,598	29,251	302,755
Aktien-Gesellschaft, Berlin .....	1,836,022	1,760,976	2,174,472	1,451,341	1,351,179	1,397,316	9,971,306
Kalle & Co., Biebrich.....	612,648	618,667	535,974	219,138	136,858	499,162	2,622,447
Carl Jager, Dusseldorf.....	38,095	24,886	19,141	23,470	15,417	21,640	142,649
Cassella & Co., Frankfurt A. M.....	2,464,898	2,470,890	2,629,387	2,377,063	1,632,962	1,960,551	13,535,781
Griesheim-Elektron, Griesheim.....	512,617	502,998	730,532	378,303	493,927	715,151	3,333,528
M. L. & B. Hoechst.....	4,889,817	1,435,087	228,245			576,400	7,129,549
Bayer & Co., Leverkusen.....	3,525,491	3,251,938	2,652,318	3,114,012	2,910,749	3,039,680	18,544,238
Badische, Ludwigshafen.....	5,293,359	5,042,031	5,335,656	1,346,444	419,856	131,111	15,767,857
Leonhardt & Co., Muhlheim.....	123,657	132,793	118,589	89,857	71,279	57,578	593,753
Weiler-ter-Meer, Uerdingen.....	733,778	516,433	513,313	408,567	328,628	384,314	2,885,033
Total .....	20,082,636	15,829,997	13,176,900	9,450,731	7,416,453	8,962,154	74,828,871

	July	August	September	October	November	December	Total July-Dec.
Wulfsing, Dahl & Co., Barmen.....	61,283	55,906	12,919	44,370	70,875	52,896	298,249
Aktien-Gesellschaft, Berlin .....	1,957,367	1,052,191	1,593,946	1,988,853	1,014,745	1,719,120	9,126,222
Kalle & Co., Biebrich.....	354,914	369,846	365,856	377,802	213,013	317,376	1,998,837
Carl Jager, Dusseldorf.....	17,811	30,885	10,085	14,001	8,923	8,816	90,621
Cassella & Co., Frankfurt A. M.....	1,955,000	1,769,029	1,588,699	1,692,460	1,769,821	1,683,856	10,458,874
Griesheim-Elektron, Griesheim.....	582,453	755,076	800,061	748,739	460,475	414,352	3,761,159
M. L. & B. Hoechst.....	182,073	867,997	697,462	1,380,130	2,542,830	3,473,504	9,143,996
Bayer & Co., Leverkusen.....	3,129,438	2,987,106	1,932,304	2,170,749	2,817,558	1,754,384	14,791,839
Badische, Ludwigshafen.....	418,765	1,521,439	1,985,421	3,466,892	5,150,420	5,501,184	18,044,121
Leonhardt & Co., Muhlheim.....	44,973	44,876	70,198	83,943	76,974	52,896	373,965
Weiler-ter-Meer, Uerdingen.....	328,205	189,015	290,197	415,598	321,402	405,536	1,949,953
Total .....	9,032,287	9,643,566	9,147,178	12,383,546	14,447,039	15,383,920	70,037,536

## GERMAN PRODUCTION OF DYES, 1923 (Pounds)

Group	January	February	March	April	May	June	Total Jan.-June
I.	1,264,947	1,024,259	871,428	494,349	253,264	209,035	4,117,282
II.	5,780,412	2,488,112	1,069,825	60,878	47,740	576,400	10,023,367
III.	356,691	340,508	365,931	267,371	268,532	236,386	1,835,419
IV.		2,560	10,666		1,434		14,960
V.	295,313	215,794	172,277	138,618	172,207	177,619	1,161,828
VI.	3,921,818	3,686,609	3,320,637	2,506,690	2,407,477	2,750,096	18,596,327
VII.	371,606	308,931	527,146	542,387	157,829	281,222	2,096,071
VIII.	2,649,899	2,659,924	2,253,469	1,921,939	1,392,961	1,305,005	12,183,188
IX.	998,271	743,063	788,392	741,471	705,645	709,800	4,686,642
X.	961,003	840,226	769,295	546,382	298,109	270,266	3,685,271
XI.	2,917,138	2,892,958	2,549,571	2,026,049	1,566,883	2,098,553	14,051,152
XII.	575,538	629,753	478,272	304,647	144,372	247,782	2,380,364
Total .....	20,082,636	15,829,997	13,176,900	9,460,731	7,416,453	8,862,154	74,828,871

Group	July	August	September	October	November	December	Total July-Dec.
I.	366,854	220,334	763,418	865,920	996,284	1,260,688	4,473,498
II.	27,086	982,863	985,257	2,534,488	4,192,384	4,919,328	13,641,606
III.	236,676	201,811	205,806	232,822	964,691	661,200	2,538,006
IV.			3,212	21,525	72,952	44,080	141,769
V.	140,518	138,837	115,218	153,041	244,139	317,376	1,109,129
VI.	2,627,292	2,607,148	1,988,175	2,672,182	2,048,587	1,736,752	13,680,136
VII.	337,684	347,601	202,937	214,500	243,214	211,584	1,557,520
VIII.	1,487,790	1,521,105	1,190,666	1,247,972	1,432,939	1,307,280	8,687,753
IX.	720,219	627,431	382,140	664,734	681,402	493,696	3,569,623
X.	325,652	277,639	393,554	704,026	703,674	758,176	3,162,731
XI.	2,522,978	2,401,627	2,683,718	2,769,114	2,002,598	2,556,640	14,936,675
XII.	239,538	317,170	233,077	303,222	863,975	617,120	2,574,102
Total .....	9,032,287	9,643,566	9,147,178	12,383,546	14,447,039	15,383,920	70,037,536

# Wants & Offers

Rate—All classifications, \$1.00 an issue for 20 words or less, additional words, 5c each, per issue.

Payment—Must accompany order, add 10c if replies are to be forwarded.

Address "Wants & Offers"

DRUG & CHEMICAL MARKETS  
3 Park Place, New York.

## BUSINESS OPPORTUNITIES

**SPACE TO LET**—In heavy chemical zone at Elizabeth, manufacturing space at 40c per ft., 12,000 square feet. All or part available. Railroad siding on central. Box 585, DRUG & CHEMICAL MARKETS.

**SALES AGENCY**—Established sales agent in Boston with a live efficient organization covering mills and factories throughout New England will add one or two lines of established chemical manufacturers. Warehouse and credit facilities are exceptional and sales record bears strictest scrutiny. Box 592, DRUG & CHEMICAL MARKETS.

**IMPORTED CHEMICALS**—Well and favorably known importer established since 1906 with direct connections to manufacturers abroad wants to establish agents for sale with warehouse stocks in Southern and Middle Western cities. High class proposition for a reliable energetic man with established trade following. Address, Opportunity, DRUG & CHEMICAL MARKETS.

**HELP**—If you make any medicinal specialties you will be interested in our service to increase sales through drug trade or physicians. We are in a position now to take on a few more accounts and offer a complete nationwide sales, mail and advertising campaign to selected manufacturers. Our charges based on our results for you. Box 595, DRUG & CHEMICAL MARKETS.

**ADVERTISING**—If you desire to have your Want Ad read by people in the trade, try this page. While the average newspaper is about one or two per cent effective as far as chemical wants are concerned, this page is read 100% by makers, sellers, and buyers of chemicals, drugs, and allied products. Five cents per word—one dollar minimum.

**WILL BUY** a manufactory of advertised brands with established wholesale distribution. State when brands began, amounts 1922 and 1923 sales and reason for selling. Box 600, DRUG & CHEMICAL MARKETS.

**EXPORT FIRM** desires services of young aggressive salesman with \$5,000 to \$10,000 capital, familiar with chemical products going to Japan. We do not want money—we do want efficient services backed by money for which we offer a substantial interest in the business. Box 551, DRUG & CHEMICAL MARKETS.

## BUSINESS OPPORTUNITIES

**PHENOLPHTHALEIN**, Benzidine, Synthetic Phenol—can design plant and install process for any of these products on modern efficient lines. Replies held confidential. Box 601, DRUG & CHEMICAL MARKETS.

**WE HAVE** an excellent business. It's growing and we need help. A small amount of capital with the services of an active, intelligent young man with experience in the selling of fine and pharmaceutical chemicals will help both us and you. Box 552, DRUG & CHEMICAL MARKETS.

**A PRACTICAL BUSINESS MAN** with a chemical education is looking for a better opportunity. He is now assistant sales and New York office manager of a national known chemical company. He is young, has initiative, a pleasing personality and appearance. He has well-balanced experience in engineering, manufacturing, buying and selling. He is of value to a concern in need of some improvement in organization or method of getting and handling business. He has keen analytical ability, a vivid constructive imagination and best of all, good business judgment. Box 596, DRUG & CHEMICAL MARKETS.

**SALES AGENCY**—Experienced and reliable sales agent, in New York, desires to add the products of one or two American manufacturers to his list of clients in the fine chemical, alkaloid, and pharmaceutical specialty fields. Box 598, DRUG & CHEMICAL MARKETS.

**BUYING SERVICE**—Do you want the services of a thoroughly reliable man to make your purchases in the New York market? If so, I am confident I can serve you well and save money for you in your buying. Let me tell you how and why. Address Broker, DRUG & CHEMICAL MARKETS.

## SITUATIONS WANTED

**EXPERIENCE**—5 years selling dye intermediates, young, aggressive and ambitious. Desires connection with large organization. Box 549, DRUG & CHEMICAL MARKETS.

**CHEMIST**—Young German of highest variety of technical and scientific training, Ph.D. degree, and who has had four years working experience in factory laboratory seeks a connection with an American manufacturer of coal-tar chemicals. Willing to work hard and honestly for little salary. Box 589, DRUG & CHEMICAL MARKETS.

## SITUATIONS WANTED

**CHEMICAL ENGINEER**, with army and plant experience who has successfully sold goods, desires position where energy, personality and honesty would be an opportunity to demonstrate results. Address, Shaw, 1353 W. 8th Street, Erie, Pa.

**SALESMAN**—Technical training, experience selling heavy chemicals, knowledge of domestic and imported chemicals, desires connection, will travel. Box 582, DRUG & CHEMICAL MARKETS.

**SALESMAN** with four years practical and successful work among buyers in New York and northern New Jersey will be open for engagement March first. Severs present connection on own initiative and seeks opportunity to demonstrate sales ability with a reward to be based upon sales record. Box 591, DRUG & CHEMICAL MARKETS.

**SALESMAN**—Six years selling to New England textile mills—specialist in industrial soaps—familiar with colors and sizings wants to move to Southern territory because of poor health of wife. Has produced record business and can furnish highest references from present employers as to industry, ability, and honesty. Address Box 594, DRUG & CHEMICAL MARKETS.

**A MAN** who controls the job you want is most apt to be a regular reader of this column. For real positions in the chemical, drug, dye, oil and allied fields no medium brings better results than these Wants and Offers—5c a word.

## HELP WANTED

**OPPORTUNITY** for young man, having practical experience in the uses and applications of textile and leather softeners, sizes, and finishes, and able to introduce these, and satisfactorily demonstrate in the mill. One with sales ability and known to the consumers, and having knowledge of the manufacture of these products, will be given the preference. Reply fully, stating experience in detail, salary desired, reference, etc. Box 581, DRUG & CHEMICAL MARKETS.

**OFFICE MAN** familiar with telephone and correspondence and with practical experience in industrial chemicals wanted by an established importer. Kindly give full particulars as to experience, nationality, and salary. Box 587, DRUG & CHEMICAL MARKETS.

## Buffalo Foundry & Machine Company

1579 Fillmore Ave., Buffalo, N. Y.

Manufacturers of

**VACUUM DRYERS  
EVAPORATORS  
CHEMICAL APPARATUS  
COPPERSMITHING**

New York Office: 17 Battery Place

## TECHNICAL MACHINERY—Offered Cheap

- 10 Welded Steel Autoclaves.
- 70 42" Centrifugal Wringers, direct connected to 40 hp. vertical motors. Complete.
- 4 Sets, 3 wringers to a set, 36" belt-driven Centrifugal Wringers.
- 50 3" Centrifugal Submerged Acid Pumps.
- 6 Baker & Shevlin Centrifugal Screens.
- 1 Aniline Distilling Outfit, consisting of kettle or aniline boiler, column, dephlegmator, condenser and fittings.
- 2 Special 7,000-lb. Nitrators, consisting of steel tank, stirring apparatus and coils.
- 8 Steel Condensers with coils and manifolds.
- 56 Universal Kneading and Mixing Machines, 100-gallon capacity. Werner and Pfeleiderer make.
- 6 Mammoth Jr. Jordan Engines, Noble & Wood make.
- 35 Welded Steel Digesters, capacity 1,300 cu. ft., pressure 110 lbs.
- 20 Cotton Dryers, Sargent make, complete with mixing pickers, washers, rolls, concentrators, feeders, coils and fittings.

Write for specifications and prices

**OLD HICKORY POWDER PLANT**  
OLD HICKORY TENNESSEE



HELP WANTED

**SALESMAN WANTED** by a firm representing well-known manufacturers of alkalies and other industrial chemicals in the metropolitan district. Box 590, DRUG & CHEMICAL MARKETS.

**DETAIL MAN**—Pharmaceutical house requires the services of a high grade detail man in the Ohio, Michigan and Indiana territories. Must have the education and address to call successfully on the best physicians. Only a really high type of individual can fit into our organization; but we can offer such a man a real opportunity. Box 588, DRUG & CHEMICAL MARKETS.

**WANTED**—An experienced man for the sale of foreign and domestic Drugs, Essential Oils, Vanilla Beans, etc., preferably one with broker's experience. Salary and commission. Box 583, DRUG & CHEMICAL MARKETS.

**DRUG & SPECIALTY SALESMAN**—Keen, aggressive, of proven ability, having acquaintance with the drug and allied trade, to connect with an organization established eighteen years, very prominent in the manufacture of pharmaceuticals, package line and specialties; an opportunity offering unusual attraction; commissions paid weekly. This connection for salesmen outside of Greater New York. Write us about your qualifications. Corona Chemical Company, Inc., 43-45 Wooster St., New York.

HELP WANTED

**MEN WANTED** for our world-wide campaign. If you can finance yourself and follow simple instructions, we have a \$10,000.00 a year place for you. Dr. Watson's Laboratories, West Peachtree at 14th Street, Atlanta, Ga.

DRUGS AND CHEMICALS

**FOR SALE**—Oxalic Acid in kegs. Box 597, DRUG & CHEMICAL MARKETS.

**CLOSING OUT** a line of chemicals, bottles and fixtures much below the market price at once. Taka Chemical Company, 491 Atlantic Ave., Brooklyn.

**WANTED**—Medicinal and hospital supplies. Send list with best cash price. Box 599, DRUG & CHEMICAL MARKETS.

PLANT EQUIPMENT

**FOR SALE**—100 H. P. Bullock A. C. Squirrel Cage Motor. 220 Volts—204 Amperes—2 Phase—60 cycles—680 R. P. M. Excellent condition. McIlvaine Bros., Inc., 1500 Hamilton St., Phila., Pa.

**FOR SALE**—Several large and small steam and belt driven air compressors complete equipment, also an assortment of open and closed steel tanks. F. William Stocker, Hoboken, N. J.

PLANT EQUIPMENT

**WANTED**—Single unit vacuum Nitric Acid plant complete. Box 603, DRUG & CHEMICAL MARKETS.

**FOR SALE**—Carboys, all standard and special sizes. Box 604, DRUG & CHEMICAL MARKETS.

**FOR SALE**—250 acid carboys—half of them never used—all in very good condition. Box 593, DRUG & CHEMICAL MARKETS.

**WANTED**—Drums in good condition in any quantity for spot cash. Address, Jersey, DRUG & CHEMICAL MARKETS.

**TWO RUBBER LINED centrifuges** for sale, 40" and 42", inter-driven, in first class condition. Box 586, DRUG & CHEMICAL MARKETS.

**WANTED**—Surplus and second hand stocks of steel drums, carboys, bottles, burlap and cotton bags. Box 602, DRUG & CHEMICAL MARKETS.

MISCELLANEOUS

**ASK THE Bureau of Employment of the Chemists' Club (Agency) 63 East 41st Street, New York City.** If you need a chemist (man or woman) for the laboratory or works, if you wish a position for the practice of your profession. No charge to employers. Moderate fee to applicants. Prof. Herbert R. Moody, Chairman Club Committee.

# Cresylic Acid

All Grades Pale or Dark

**Benzol Phenol Cresol**  
**Creosote Coal Tar Products**

**Jordan Coal Tar Products Co.**  
(Incorporated)

13 Cliff Street, N. Y. Telephone Beekman 1758  
**WORKS: MATAWAN, N. J.**

## USE

Drug & Chemical Markets Wants & Offers to secure for yourself an opportunity to do the type of work you desire.

## BIG MEN

in the Drug, Chemical, and Chemical Consuming Industries read Drug & Chemical Markets as a matter of business.

## BEST CHEMICAL LIME

Manufactured in the United States

Analyzing over 98% Ca O, under 1/2% Mg O

In lump and pulverized form

Shipped in bulk, in wooden barrels with tongued and grooved staves in iron drums and in closely woven bags.

In car loads from our works in Northern Virginia, and in less than car loads in the metropolitan district from our warehouse in Brooklyn.

**MANHATTAN LIME CO.**

Manufacturers

Sales Offices

3707 Ft. Hamilton Parkway, Brooklyn, N. Y.

**Hydrocarbon Products Co.**  
Inc.

**Benzols**  
of all types

**39 Cortlandt St. New York**

# Sodium Tungstate

**Charles Lennig & Co., Inc.**

Manufacturing Chemists

Office

40 N. Front St.  
Philadelphia

Works

Bridesburg  
Philadelphia

**PODOPHYLLIN**

U. S. P.

**HYDRASTINE**

U. S. P.

**COLCHICINE**

U. S. P.

**Anesthesin      Cinchophen****Barbital              Procaine****Synthetic Chemicals, Alkaloids,  
Extracts and Concentrations***The Abbott Laboratories***CHICAGO, ILL.****COAL TAR  
PRODUCTS****Cresylic  
Acid****JAYNE & SIDEBOTTOM**

INCORPORATED

**17 BATTERY PLACE NEW YORK CITY***Selling Agents for***COOPERS CREEK CHEMICAL COMPANY  
WEST CONSHOHOCKEN, PA.****THE CHEMICAL AGE**

A weekly journal devoted to Industrial and Engineering Chemistry.

Its news service is unrivalled in Chemical journalism; each weekly issue contains original contributions of practical value by eminent writers.

The Chemical Age is essential to the manufacturer and chemist alike—all desirous of keeping pace with modern development should study its pages week by week.

Specimen Copy, subscription and advertisement rates sent free upon request to the Publisher, 8 Boulevard St., London, E. C. 4.

## Buyers' Guide

For full particulars as to products and addresses see Index of Advertisers on the page following.

### HEAVY CHEMICALS

<p>American Cyanamid Co. American-British Chem. Supplies J. T. Baker Chemical Co. Battelle &amp; Renwick C. W. Campbell Co. Carus Chem. Co. Chilean Nitrate Committee Church &amp; Dwight The Cleveland-Cliffs Iron Co. Chas. Cooper &amp; Co. Diamond Alkali Co. The Dow Chemical Co. E. I. du Pont de Nemours &amp; Co. Ellis Jackson &amp; Co. B. G. Feinberg General Chemical Co. Grasselli Chemical Co. W. F. George Chemicals, Inc. Wm. S. Gray &amp; Co. R. W. Greeff &amp; Co. Harshaw, Fuller &amp; Goodwin Co. Industrial Chemical Co. Ionia, Speiden &amp; Co. International Salt Co. Jayne &amp; Sidebottom, Inc.</p>	<p>A. Klipstein &amp; Co. Chas. Lennig &amp; Co., Inc. Mathieson Alkali Works, Inc. Michigan Alkali Co. The Miner-Edgar Co. Monsanto Chemical Works Clarence Morgan &amp; Co. The New Brunswick Chem. Co. Henry W. Penbody &amp; Co. Norvell Chem. Corp. Pfaltz &amp; Bauer A. P. Rippenbein Roessler &amp; Hasslacher Chem. Rohm &amp; Haas Co. Seaboard Chemical Co. E. M. Sergeant Co. Solvay Process Co. Sterling Borax Co. Eugene Suter &amp; Co. Victor Chemical Works The Warner Chemical Co. Wilkes-Martin-Wilkes Co. Isaac Winkler &amp; Bro. Co. Wishnick-Tumpeper Chemical Co.</p>
---	---

### FINE CHEMICALS

<p>Abbott Laboratories Baird &amp; McGuire J. T. Baker Chemical Co. W. Benkert &amp; Co. David Berg Industrial Alcohol Co. Carbide &amp; Carbon Chem. Corp. Carus Chem. Co. Chemical Works "Naarden" Antoine Chiris Co. Commonwealth Chemical Corp. Charles Cooper &amp; Co. Darco Sales Corp. J. E. Dockendorff &amp; Co. The Dow Chemical Co. Eastman Kodak Co. Electro Bleaching Gas Co. R. G. Feinberg E. Fongera &amp; Co. The Fries &amp; Fries Co. William S. Gray &amp; Co. Harshaw, Fuller &amp; Goodwin Co. Hoffmann-LaRoche Chem. Wks. Industrial Chemical Co. International Salt Co. Jayne &amp; Sidebottom, Inc. A. Klipstein &amp; Co.</p>	<p>Magnus, Mabee &amp; Reynard, Inc. Mallinckrodt Chemical Works Mathieson Alkali Wks., Inc. May &amp; Baker H. A. Metz &amp; Co. The Miner-Edgar Co. Monsanto Chemical Works Clarence Morgan &amp; Co. N. Y. Quinine &amp; Chem. Works The Norvell Chemical Corp. Perth Amboy Chem. Wks. Pfaltz &amp; Bauer Powers-Weightman-Rosengarten B. Presman Company Roessler &amp; Hasslacher Chem. Co. Rhodia Chem. Co. C. P. Schlicke Sterling Borax Co. Eugene Suter &amp; Co. Geo. Uhe Ungerer &amp; Co. U. S. Industrial Chemical Co. Victor Chemical Works Victor &amp; Hosken Wilkes-Martin-Wilkes Co. Wishnick-Tumpeper Chemical Co.</p>
--	---

### DYESTUFFS

<p>Cable Chem. Works Calco Chemical Co. C. W. Campbell Co. John Campbell &amp; Co. Central Dyestuff &amp; Chem. Co. Dow Chemical Co. Dye Products &amp; Chem. Co. E. I. du Pont de Nemours &amp; Co. Ellis Jackson &amp; Co.</p>	<p>A. Klipstein &amp; Co. Grasselli Chemical Co. The Heller &amp; Merz Co. H. A. Metz &amp; Co. National Aniline &amp; Chemical Co. The New Brunswick Chem. Co. Newport Chemical Works The Norvell Chemical Corp. Weiss &amp; Downs The White Tar Aniline Co. Wishnick-Tumpeper Chemical Co.</p>
--	--

### COAL TAR PRODUCTS

<p>Abbott Laboratories American-British Chem. Supplies Baird &amp; McGuire The Barrett Co. Calco Chemical Co. John Campbell &amp; Co. Dow Chemical Co. E. I. du Pont de Nemours &amp; Co. Dye Products &amp; Chem. Co. The Heller &amp; Merz Co. Hydrocarbon Prods. Co.</p>	<p>Jordan Coal Tar Products Co. A. Klipstein &amp; Co. H. A. Metz &amp; Co. Monsanto Chemical Works National Aniline &amp; Chemical Co. Newport Chemical Works The Norvell Chemical Corp. Weiss &amp; Downs The White Tar Aniline Co. Wolff-Alport Chem. Corp.</p>
---	--

### ESSENTIAL OILS

<p>M. L. Barrett &amp; Co. Belgian Trading Co. W. J. Bush &amp; Co. Antoine Chiris Co. Delphi Products, Inc. J. E. Dockendorff &amp; Co. The Fries &amp; Fries Co. Fritzsche Bros., Inc.</p>	<p>Magnus, Mabee &amp; Reynard, Inc. Morana, Incorporated Clarence Morgan &amp; Co. Pfaltz &amp; Bauer, Inc. Geo. Uhe Ungerer &amp; Co. Victor &amp; Hosken</p>
--	---

### CRUDE DRUGS

<p>M. L. Barrett &amp; Co. W. J. Bush &amp; Co. Hoffmann-LaRoche Chem. Wks.</p>	<p>H. R. Lathrop &amp; Co. Magnus, Mabee &amp; Reynard, Inc. B. Presman Company</p>
---	---

### EQUIPMENT

<p>Armstrong Cork Co. Buffalo Foundry &amp; Machine Co.</p>	<p>The Cleveland Cooperage Co. Old Hickory Powder Plant</p>
---	---

## THE NEWPORT QUALITY

Coal Tar  
Products

We have stocks of the  
following products at  
Passaic, N. J., ready for  
immediate shipment:

Alpha Naphthylamine

Ortho Nitro Toluol

Ortho Toluidine

Para Toluidine

Sodium Naphthionate

N W Acid

R Salt

Cleves Acid

Para Nitro Toluol

Toluidine Base

Meta Phenylene Diamine

Meta Toluylene Diamine



Newport Chemical Works, Inc.

Passaic, New Jersey





## Painstaking Chemical Control Characterizes Production

of all of our alcohols, esters, and associated products. We are capable of meeting the most exacting specifications of any plant requiring such materials. Conveniently located warehouses insure speedy delivery of standard products, and large well equipped plants, of special materials.

ACETIC ETHER	ETHYL LACTATE
ACETONE	ETHYL OXALATE
AMMONIUM SALTS	ETHYL PHTHALATE
AMYL ACETATE	ETHYLENE
CARBON DIOXIDE	ISOBUTYL ALCOHOL
ETHER, ABSOLUTE	ISOPROPYL ALCOHOL
ETHER, ANESTHESIA	IODINE, DISTILLED
ETHER, U. S. P.	MONACETIN
ETHYL ACETATE	NORMAL PROPYL ALCOHOL
ETHYL ACETO-ACETATE	POTASH SALTS
ETHYL ALCOHOL, ABSOLUTE	POTASSIUM IODIDE
ETHYL ALCOHOL, C. P. 96%	REFINED FUSEL OIL
ETHYL FORMATE	SPECIAL ESTERS
AMYL ALCOHOL	TINCTURE IODINE

## U. S. INDUSTRIAL CHEMICAL CO.

Executive Offices, 110 E. 42nd St., New York

### Sales Offices and Warehouses

BALTIMORE So. Baltimore	CINCINNATI 4609 Eastern Ave.	NEW ORLEANS Maison Blanche Bldg.
BOSTON 131 Beverly St.	CLEVELAND Perry Payne Bldg.	NEWARK 238 Wilson Ave.
Boston 14, Mass.	DETROIT Union Trust Bldg.	PHILADELPHIA 141 No. Front St.
BUFFALO 4th and Jersey Sts.	KANSAS CITY 1409 W. 10th St.	PITTSBURGH Bessemer Building
CHICAGO 3652 Archer Ave.		

## PURE and DENATURED ALCOHOL

For Manufacturing, Industrial,  
Scientific and Technical Purposes

### U.S. INDUSTRIAL ALCOHOL CO.

Largest Producers in the World  
Executive Offices: 110 E. 42nd Street, New York  
Branches in all principal cities

## Index To Advertisers

Abbott Laboratories .....	536
American British Chemical Supplies, Inc. ....	524
American Cyanamid Co. ....	406
Baird & McGuire .....	522
J. T. Baker Chemical Co. ....	506
The Barrett Co. ....	518
M. L. Barrett Co. ....	523
Battelle & Renwick .....	512
Belgian Trading Co. ....	448
W. Benkert & Co. ....	3rd cover
David Berg Industrial Alcohol Co. ....	447
Buffalo Foundry & Machine Co. ....	554
W. I. Bush & Co. ....	526
Cable Chemical Works .....	455
Calco Chemical Co. ....	427
John Campbell & Co. ....	521
Carbide & Carbon Chemical Corp. ....	508
Carus Chemical Co. ....	523
Central Dyestuff & Chemical Co. ....	521
Chemical Age .....	536
Chemical Works "Naarden" .....	523
Chilean Nitrate Committee .....	522
Antoine Chiris Co. ....	520
Church & Dwight .....	520
The Cleveland-Cliffs Iron Co. ....	507
The Cleveland Cooperation Co. ....	242
Charles Cooper & Co. ....	501
Darco Sales Corp. ....	448
Delphi Products, Inc. ....	522
Diamond Alkali Co. ....	514
J. E. Dockendorff & Co. ....	527
Dovan Chem. Corp. ....	344
The Dow Chemical Co. ....	467
E. I. du Pont de Nemours & Co., Intermediates Department .....	505
Dye Products & Chemical Co. ....	494
Eastman Kodak Co. ....	454
Electro Bleaching Gas Co. ....	508
B. G. Feinberg .....	522
E. Fougera & Co. ....	443
The Fries & Fries Co. ....	529
Fritzsche Bros. ....	526
General Chemical Co. ....	502, 520
W. P. George Chemicals, Inc. ....	520
Grasselli Chemical Co. ....	499, 507
William S. Gray & Co. ....	472
R. W. Greeff & Co. ....	518
Harshaw Fuller & Goodwin Co. ....	510
The Heller & Merz Co. ....	496
Hoffmann-La Roche Chemical Works .....	505
Hydrocarbon Prods. Co. ....	535
Industrial Chemical Co. ....	512
Innis, Speiden & Co. ....	519
International Salt Co. ....	517
Ellis Jackson & Co. ....	536
Jayne & Sidbottom, Inc. ....	536
Jordan Coal Tar Products Co. ....	535
A. Klinstein & Co. ....	535
Chas. Lennie & Co. ....	535
Magnus, Mabey & Reynard, Inc. ....	527
Mallinckrodt Chemical Works .....	508
Manhattan Lime Co. ....	535
Mathieson Alkali Works .....	499
May & Baker .....	528
H. A. Metz & Co. ....	516
Michigan Alkali Co. ....	504
The Miner-Edgar Co. ....	520
Monsanto Chemical Works .....	1st cover, 528
Morana, Incorporated .....	524
Clarence Moran & Co. ....	524
National Aniline & Chemical Co. ....	468
Newport Chemical Works .....	527
New Brunswick Chem. Co. ....	471
New York Organic & Chemical Works .....	521
Norvell Chemical Corp. ....	510
Old Hickory Powder Plant .....	534
Henry W. Peabody & Co. ....	530
Pfaltz & Bauer .....	490
Powers-Weightman-Rosengarten Co. ....	486
R. Presman Company .....	528
Rhodia Chemical Co. ....	528
The Roschler & Hasselacher Chemical Co. ....	4th cover, 404
Rohm & Haas Co. ....	531
Seaboard Chemical Co. ....	531
The Selden Co. ....	521
E. M. Sergeant Co. ....	521
Sterling Borax Co. ....	524
Eugene Suter & Co. ....	520
Geo. Uhe .....	525
Unecrer & Co. ....	528
U. S. Industrial Alcohol Co. ....	528
U. S. Industrial Chemical Co. ....	530
Victor Chemical Works .....	3rd cover
Victor & Hoeken .....	2nd cover
The Warner Chemical Co. ....	383
Weiss & Downs .....	460
The White Tar Aniline Corp. ....	501
Wilkes-Martin-Wilkes Co. ....	515
Wing & Evans .....	519
Isaac Winkler & Bro. Co. ....	344
Wishnick-Tumpeier Chem. Co. ....	381
Wolff-Alport Chem. Corp. ....	381

*Manufactured by*

**JOH. A. BENCKISER'S**

Laboratories—Ludwigshafen on Rhine

**TARTARIC ACID U. S. P.**

Crystal, Powder, Granular

*Sole Agents*

**W. BENKERT & CO., INC.**

136 Water Street, New York, N. Y.

Payment after passing by  
Department of Agriculture

Telephone John

1995  
1996  
3421  
5256



**QUININE**

**Sulphate — Bisulphate**

*Manufactured by*

**Hoshi Pharmaceutical Co.**

Exclusive Distributors for North & South America

**VIETOR & HOSKEN**

160 Pearl St., New York

Hanover 3224-3225

Cables : Hoskwil





*The*  
**UNIVERSAL**  
needs of the  
*TEXTILE INDUSTRY*

The resources of men and materials are drawn upon to convert animal and vegetable fibres into finished fabrics.

Chemicals of every description play a stellar role in the process—and their importance in the industry justifies the exercise of the greatest care and judgment in selection.

It is a source of pride with us that R & H Chemicals are used so extensively in this fundamental industry. It is true they merit the endorsement—for each R&H product is a standard of chemical quality—made dependable through a system of manufacture that insures absolute uniformity.

And back of basic chemical purity is the R&H reputation for reliability extending over a period of forty-one years.

*A few of  
our specialties:*

ZINC DUST  
OXALIC ACID  
CHLOROFORM  
ANTIMONY SALTS  
BARIUM CHLORIDE  
GLAUBER'S SALT  
ACETATE OF SODA  
CAUSTIC POTASH  
CARBONATE POTASH  
TARTAR EMETIC  
SODIUM NITRITE  
SODIUM PHOSPHATE  
FORMALDEHYDE  
SODIUM BISULPHITE  
CARBON TETRACHLORIDE  
TRI SODIUM PHOSPHATE



42nd Year

*The*  
**ROESSLER & HASSLACHER CHEMICAL CO.**

709 Sixth Avenue, New York



